# Anastasiia Solodkaia

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## Personal Details

**Birth Date:** 04/21/1987   **Nationality:** Russian
**Location:** Dubai, UAE   **Languages:** English, Russian
**Linked In:** www.linkedin.com/in/anastasiia-solodkaia
**Website:** www.solodkaia.name

# Software Generalist / Technical Leader

I'm a senior software engineer with 15+ years of experience and a wide range of knowledge in technology. I began programming at the age of 8 in 1995, and have been passionate about my profession ever since.

**Oracle Java Certified Professional.** Worked several years closely with JVM and JDK as part of Oracle Java Organization (JCK project).

Experience with delivering through whole delivery cycle. Strong leading and mentoring skills, active life position, constant learning and discovering new technologies and trends.

Saint-Petersburg State University, Russia      2007-2012

**BSc. Information Technology**

# Technologies Stack

JAVA • PYTHON 3 • JAVASCRIPT • TYPESCRIPT • CSS •HTML • BOOTSTRAP

JUNIT • PYTEST • JMETER • SPRING • WEB SERVICES • REST • SOAP • FLASK

HIBERNATE • JDBC • SQL ALCHEMY • MYSQL • POSTGRESQL • MONGODB

AEDES MQTT • ELASTICSEARCH • TOMCAT • JBOSS • HTTPD

CI/CD • DOCKER • JENKINS • PROMETHEUS • GRAFANA • GIT • MAVEN

LINUX • WINDOWS SERVER

# Skills

FEATURE DESIGN • CODE DEVELOPMENT • UNIT TESTING • LOAD TESTING

TECHNICAL LEADERSHIP • TEAM LEADERSHIP • MENTORING

PRESALES • PRESENTING • CLIENT COMMUNICATION

ARCHITECTURE DESIGN • AGILE • WATERFALL • CI/CD • TDD

# Experience

**arloid.**

**May 2022 – Now**  1 Year

Arloid Automation, Dubai

## Backend Developer

Participated in the development of an AI-based automated solution for managing building climate-related devices such as HVAC and heating systems. The goal of this project was to maintain a certain level of comfort for building occupants while reducing energy costs.

Designing and implementing new features, and fixing bugs. Some of the notable features I have implemented during my work include:

- New approach to calculating energy-saving statistics. This involved updating API interfaces and coordinating with the frontend, mobile, and QA teams to ensure the changes were properly delivered.

- A permissions and roles system for various actors using an existing Backend REST API.

- Redesigned a critical legacy script used to calculate real-time energy savings based on E+ inputs. This involved improving its stability and error-resistance, as well as introducing detailed monitoring. Improved monitoring response time for **93%**.

Designing and implementing new architectural components for analytic purposes.

- Designed a strategy for architectural updates requested by the AI and Analytics Teams in order to improve access to required analytical data.
- Implemented a new application for processing notifications from building devices data points and storing them in a time series database, which has improved access to analytic. Improved data retrieval performance by **85%**.
- Implemented a strategy and scripts for migrating existing analytic data of uneven structure from MongoDB to TimescaleDB.

Unit testing.

- Introduced unit testing to team practice.

- Improved unit test coverage for existing APs by **10%**.

- New functionality is always delivered with at least **80%** unit tests coverage.

Working with other team members

- Coordinating with the DevOps, QA, Frontend and Mobile teams to deliver newly developed features.
- Providing training to new members of the team on existing infrastructures and architecture.
- Mentoring other team members on python best practices, patterns, memory management, etc.

PYTHON 3 • FLASK • REST • PYTEST • MONGODB • REDIS • POSTGRESQL • AEDES MQTT • TYPESCRIPT • DOCKER • PROMETHEUS • GRAFANA

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# TINEXT ▶▶ **May 2019 – May 2022**  `3 Years`

Tinext, Dubai

## Technical Manager

Executed technical manager responsibilities:

- Leaded small teams (**3-5 people**) of different nature in different projects (developers, various area leads, architects, etc.)

- Executed technical team lead positions on project with around **45** various technical team members involved.

- Covered all delivery cycle from pre-sales, development and till go-live, load testing, warranty and upgrades.

- Played **key role** in architecture design, development process design, resources allocation design for new projects.

- Participated in pre-sales documentation preparation (technical part).

- Designed environments structure and delivery pipeline for these environments; deployed and managed some of low and high environments.

- Managed integration of several teams with internal or external REST/SOAP APIs, this includes **7** client teams.

Covered all delivery cycle from pre-sales and till go-live, warranty and upgrades.

- Participated **19** pre-sales campaigns from features to portals systems, **15** was signed.

- Record of successful go-live: **1** marketing website, **1** portal major upgrade, **1** marketing microsite, **21** new features.

Clients: **NBK • KIB • KFH • ALSAYER GROUP • DFZC • TAWUNIYA • ADNIC • ZAIN**

### Responsibilities

Development and Delivery

- Designing features together with development teams. Helping troubleshouting issues and fixing high priority / critical issues. Implementing critical functionalities.

- Onboarding other teams integrating to API exposed from delivered solution. Designing API for communication with other subsystems from client side.

- Deploying and configuring solution, troubleshouting deployment issues. Designing and executing performance tests. Java applications tuning. Supporting client security

teams in security testing and fixing security issues. Providing security recommendations.

- Delivering and configuring environments including higher environments with HA (load balancing, clustering, etc.). Designing CI/CD pipelines blueprints for Web and Mobile. Guiding client teams on CI/CD pipeline implementation.
- Maintaining and supporting existing production environments, supporting client teams in resolving issues; providing recommendations.
- Preparing code acceptance documentation and processes-related documentation.
- Managing and handling technical documentation, acceptance documentation and manuals.
- Supporting QA team on test cases preparation.
- Reviewing code and establishing code development standards, training other team members on increasing code quality.
- Auditing delivered solution from web performance point, developing set of recommendations in order to improve quality of product.
- Providing technical support for Live websites.

Technical Management

- Communicating with backend development team for supporting delivery, deployment and functionality development.
- Coordinating several teams (web, mobile) for delivering digital solutions.
- Working together with PM team for coordinating development teams with different client teams (integration, devops, qa, networking, system engineering, security and cybersecurity) and partner teams (consultants).
- Supporting management team in creating and improving processes.
- Leading and training technical analysts team in order to build missing integration documentation based on existing limited knowledge of the system: REST and SOAP services (powered by WebMethods), payments (Sadad, Checkout, STCPay).

Pre-sales

- Leading senior technical team for designing and proposing new Digital technical solution according to client requirements and needs (Web / Mobile).
- Designing strategy and participating in creating proposal, effort and project plan for migrating solutions from older version of platform to newer.
- Auditing quality of already delivered solution, providing set of recommendations on improving performance, accessibility, usability improvements, assessing expected effot to provide proposal for client.

Other

- Reviewing user stories from technical point of view, validating them against actual possibilities of client-side integrations.
- Executing technical training and providing technical support and recommendations based on client requests.
- Directly communicating to client and supporting marketing teams in working with provided solutions.

JAVA • REST • SOAP • MYSQL • HTML • CSS • BOOTSTRAP • JQUERY• JAVASCRIPT• RHEL • WINDOWS SERVER • TOMCAT • HTTPD • ELASTICSEARCH • MAGNOLIA DXP • LIFERAY DXP

**Synechron**

Synechron, Dubai / Mumbai

# Technology Leader

Worked as part of consultancy agency on various projects with different clients.

- Feature design and implementation
  - **2** new web sites features.
  - **1** new application as part of DQMF framework for bank.
- Team leadership, mentoring - small teams – **3-4** people.
- Talents recruiting - hired **8** people (junior, mid, senior) for opened positions.
- Presentation - presented company at Joker conference in Saint-Petersburg.

### Responsibilities

Features development and implementation - **UBS DQMF**

- Gathered requirements for product, designed, developed and delivered to production microservice job for transferring data to data lake on daily basis.
- Investigated source data schemas, designed and created new schema in target database based on these investigations.
- Collaborated with other teams in order to resolve source services issues. Continuously delivered data to business despite remote legacy systems performance problems.
- Collaborated with delivery team in order to establish stable delivery process.
- Documented the whole design, delivery and required testing strategies, troubleshooting process, etc. in order to transfer information to internal bank employees.
- Developed delivery process and created scheduled job for developed service. Trained delivery team for following this process.
- Developed unit tests for the product with 82% coverage.


Leading website dynamic components development - **HSBC • FAB**

- Integrated new dynamic web components with legacy websites.
- Guided other team members (juniors javascript and web developers) for implementation of components.

JAVA • JUNIT • REST• ORACLE 11.1G • SPRING • SPRING BOOT • HTML • CSS • JQUERY• JAVASCRIPT

# ORACLE

Oracle, Saint-Petersburg / Bengaluru

## Senior Software Developer

Was as part of Java Compatibility Kit (Java Organization) team. JVM, JNI, JVMTI, JDK specs.

- Participated in JCK delivery for **JDK 8**, **JDK 9**, **JDK 10**.

- Increased JVMS8 and JVMS9 total coverage by **47%**.

- Filed **42%** high-priority/critical bugs for HotSpot implementation or specification.

- Launched **2** big specification updates.

Developed several libraries and tools to improve performance of JVMS coverage:

- Enabled team work with JavaScript tool for JVMS markup.

- Improved performance of visual bytecode analysis with new web viewer of bytecode.

- Developed library which increased development performance **5** times, increased tests coverage depth up to **53** times without performance losses.

### Responsibilities

Implementing conformance testing and specification analysis.

- Developed conformance tests, which was included in JCK suite. Significantly increased total coverage in working area (JVMS8, java.lang.invoke)

- Developed wide set of tests for verifying conformity of JVM implementation (HotSpot), java.lang.invoke (MethodHandles) and java.nio packages. Supported old JNI and JVMTI tests.

- Took part in various specification discussions, finding and filing spec/implementation bugs and enhancement discussions.

Specification tracking tool development.

- Developed extension to JVMS8 (HTML). This tool have made development process more ease and predictable and team work more efficient.

- It provided set of abilities, including coverage tracking, statistics displaying, history tracking (from source control) and other activities like commenting, task prioritising and others.

JCK infrastructure improvements.

- Designed and developed set of tools and libraries, all of them was successfully integrated in project.

- Implemented tools increased readability and maintainability of code and documentation, tests generation performance.

- Implemented tools allowed to avoid widespreaded copy-and-paste technique, provided way to avoid old test framework architecture bottlenecks.

- New tool for JCOD class files generation in Java language style provided ability to build full-value class-files using all structures mentioned in JVMS8.

AsmTools.

- Updated AsmTools project according to Jigsaw updates.

- Wrote tests for asm tools and newly intoduced functionality.

JAVA • JVM • JNI • JVMTI • PYTHON • JAVASCRIPT • JQUERY • REACT JS

LevelUp, Saint-Petersburg

# Java Mentor

Trained and mentored aspiring software engineers - beginners and amateur programmers - 8 groups (~ 115 people).

- **Java Beginner Course** - Basics of programming and algorithms.
- **Java Intermediate Course** - Advanced Java language, databases and algorithms.
- **Java Junior Course** - Advanced Java-based development, preparation for Junior positions.

## Responsibilities

Mentoring and training newbies and junior developers.

- Provided classes with basics of Java, SQL, Javascript and Typescript languages. Through small project guided students on design patterns and their purpose, object-oriented programming and basics of functional programming.
- Mentored students for reaching their career goals.
- Consulted students on deployment, interviews and job search.
- Provided classes with basics of most common algorithms and data structures.
- Mentoring students on their pet projects.

JAVA • JUNIT • SPRING • JDBC • JPA • HIBERNATE • MYSQL • POSTGRESQL • CI/CD • MAVEN• GIT • HTML • CSS • JQUERY• BOOTSTRAP • JAVASCRIPT • TYPESCRIPT

SCM-Navigator, Saint-Petersburg

# Lead Java Developer, Co-Founder

Co-founded startup for connecting logistic chain network suppliers with customers and subcontractors.

- Designed technical solution based on information gathered from business analyst.
- Leaded team for implementation (1 designer, 1 devops, 2 software engineers and 3 junior software engineers)
- Preparing documentation, paperwork and promotional materials for funding tenders and conferences participation.
- Presented startup for potential investors.

### Responsibilities

Technical Leading

- Designed architecture web-application, chose tools and technologies for application implementation.
- Worked with business analyst and designer in order to gather requirements and provide better interface for user.
- Leaded team of 7 people to build REST API and RIA application.
- Coordinated infrastructure deployment with devops.

Business Management

- Prepared documents for participating in several funding tenders including Microsoft and Ingria tenders.
- Planned and prepared budgets for the startup.
- Participated in logistic conferences for investigating demands and most important requirements for solution. Communicated with target audience for better knowledge how the business is done.
- Presented startup to potential investors on conferences.

JAVA • SPRING • GWT • REST • JAVASCRIPT • ANGULARJS • CI/CD • MAVEN • GIT • HTML • CSS • BOOTSTRAP • CASSANDRA • HECTOR • POSTGRESQL

Devexperts, Saint-Petersburg

# Software Engineer

Developed several trading applications for stock and forex trading as part of the small Flex RIA team.

- DxCharts - charting software for technical analysis of market data.

- DxTrade - retail trading platform (includes dxCharts).

- DxBinary - "binary games" is a kind of gaming software based on market data.

These applications was sold and deployed for number of customers during period (at least 5 customers for dxCharts, 2 customers for dxTrade)

Developed and implemented about 12 (24%) major architectural tasks for these projects.

Migrating projects to HTML5.

- Took part in migrating dxCharts and dxTrade from Adobe Flex to HTML5.

- New components development, bug fixing, small architectural tasks.

### Responsibilities

DxCharts - charting software for technical analysis of market data - Flex RIA

- Supported legacy code.
- Developed new functionality using Flex charting tools, standard components. Created custom components for data representation.
- Solved different architecture tasks, including total refactoring of existing functionality.

DxTrade - retail trading platform - Flex RIA

- Took part in project development "from scratch".
- Solved a lot of design and architecture tasks, developed big functional parts of application.
- Took part in team pre-build manual testing activities for ensuring application stability.
- Solved different problems including memory issues corresponding to Flex components and poor Flex concurrency.
- Unit tests development using FlexUnit.
- Provided help to junior developers with studying Flex and designing architecture.
- Made review of backend Java code.
- Took park in the integration of DxCharts to this platform and reducing application

performance costs for this tasks.

DxBinary - binaries games - Flex RIA

- Supported old project with old code.
- Developed new functionality and new Flex components for it.

DxCharts and DxTrade HTML5 - Web Development Team

- Developed interactive user interface using different tools. Designed and implemented new components.
- Developed web-application using Spring framework.

JAVA • SPRING • GWT • ACTIONSCRIPT • JAVASCRIPT • COFFEESCRIPT •ANGULARJS • FLEX3 • FLEX4 • FLEXUNIT • CI/CD • MAVEN • SVN • HTML • CSS • ATMOSPHERE • FREEMARKER • GRUNT • JSP

**ариадна**

**Sep 2008 – May 2010** `1.5 Years`

Reshenie, Saint-Petersburg

# Java Developer

Developed client-server application for administrating purposes (AWP "Administrator"). This app was part of medical system "Ariadna" and was used for managing users, global system settings, access settings, etc.

During my work, new application was installed and put to operation in **3** clinics.

## Responsibilities

Designed and implemented new application for administrative purposes.

- Designed and implemented database architecture, needed for application. Integrate new architecture with old existing.

- Designed, implemented and analysed database queries, improving query performance.

- Designed and used stored procedures for different purposes, using PL/SQL.

- Gathered technical requirements for application.

- Designed and implemented new components based on existing Spring components.

- Designed and implemented architecture of entire application.

JAVA • JUNIT • SWING • JDBC • ORACLE 8I • ORACLE 9I • ORACLE 10G • SQL• PL/SQL

Altitudo, Saint-Petersburg

# Java Developer

Developed several small Java applications

- **SMS Service** - SMS service for client's website.
- **FTP/HTTP Uploader** - Java Applet for website upload.
- **Logistic AWP** - automated workplace for small logistic company.

## Responsibilities

Feature design and implementation

- Designed and developed SMS service for client's website with scheduled SMS delivery based on customer setting.
- Upgraded existing Java Applet application and added possibility to perfrm files upload per FTP protocol.
- Took part in development of AWP for transport company as part of small team (2 developrs) on leading position.

JAVA • AWT • SWING • JDBC • MYSQL • JAVA APPLETS

# CERTIFICATIONS

**Liferay DXP 7.2**

Liferay DXP 7.2 - Certified Professional Back-End Developer, 2021

ORACLE **Java SE 7**

Oracle Certified Professional, Java SE 7 Programmer (1Z0-804), 2013

ORACLE **Java SE 7**

Oracle Certified Associate, Java SE 7 Programmer (1Z0-803), 2013

**Flex 3**

Certified Flex 3 and AIR ACE, 2010

# COURSES

- Kotlin for Java Developers -
  https://www.coursera.org/account/accomplishments/verify/U9QRTVY8GEDX

- Functional Programming in Scala Specialization -
  https://www.coursera.org/account/accomplishments/specialization/BGK378V535PY

- Python For Everybody -
  https://www.coursera.org/account/accomplishments/specialization/L32GC4FYUDE8

- Stairway to Scala Applied

  - https://www.udemy.com/certificate/UC-2RNRG9NM

  - https://www.udemy.com/certificate/UC-VO7E45GL

  - https://www.udemy.com/certificate/UC-T8NCXDPX

- The Definitive Guide to Web Project Requirements Gathering -
  https://www.udemy.com/certificate/UC-7426D8FU/

- Front-End Web UI Frameworks and Tools: Bootstrap 4 -
  https://www.coursera.org/account/accomplishments/verify/ACSGFWUXTQ34

- HTML, CSS, and Javascript for Web Developers -
  https://www.coursera.org/account/accomplishments/certificate/PEH28EBCT4PL

- Java Multithreading - https://www.udemy.com/certificate/UC-JCI61D02/

- Advanced and Object Oriented JavaScript and ES6 -
  https://www.udemy.com/certificate/UC-X5MMA2QQ/

- Java Message Service - JMS Fundamentals - https://www.udemy.com/certificate/UC-G7MCBV4D

- Learn RabbitMQ: Asynchronous Messaging with Java and Spring -
  https://www.udemy.com/certificate/UC-06CLKEKX/

- Learn RabbitMQ: In-Depth Concepts from Scratch with Demos -
  https://www.udemy.com/certificate/UC-9D795VMW/

- Taming Big Data with Spark Streaming and Scala - Hands On! -
  https://www.udemy.com/certificate/UC-L5PU2QX9

- Apache Spark 2 with Scala - Hands On with Big Data! -
  https://www.udemy.com/certificate/UC-F7ZS60A3/

- Microservices Software Architecture: Patterns and Techniques -
  https://www.udemy.com/certificate/UC-WZYGYI3T/

- NoSQL: Neo4j and Cypher

  - https://www.udemy.com/certificate/UC-RQLCKP3L

  - https://www.udemy.com/certificate/UC-U238YH6G

- Probability and Statistics for Business and Data Science -

https://www.udemy.com/certificate/UC-59UE1PBF

- Intro to Entrepreneurship: Get started as an Entrepreneur -
https://www.udemy.com/certificate/UC-3X1NPSLY

- Project Management - Oracle

- Interpersonal Communication for Engineering Leaders -
https://www.coursera.org/account/accomplishments/verify/N2RWHXKGFRMN

- Writing Skills for Engineering Leaders -
https://www.coursera.org/account/accomplishments/verify/5EEHYG59FFTA

- Relationship Management -
https://www.coursera.org/account/accomplishments/verify/ZQUL9ARCRSDP

- Self Awareness and the Effective Leader -
https://www.coursera.org/account/accomplishments/verify/FAFRLLJCMP23

- Business Foundations -
https://www.coursera.org/account/accomplishments/specialization/MCANQURB2WRM

- Software Processes and Agile Practices -
https://www.coursera.org/account/accomplishments/verify/GEZAHMYZP5VV

- Introduction to Software Product Management -
https://www.coursera.org/account/accomplishments/verify/X332JF3NMV9K

- Financial Markets -
https://www.coursera.org/account/accomplishments/verify/UEPLMU23L7DV