**Tatiana Goretskaya**

● linkedin: [https://www.linkedin.com/in/tatianadidik](https://www.linkedin.com/in/tatianadidik/) ● hackerrank: <https://www.hackerrank.com/aquarellian> ●

● stakoverflow: <https://stackoverflow.com/users/7111382/tatiana-didik> ● github: <https://github.com/aquarellian> ●

● e-mail: [tatiana.a.goretskaya@gmail.com](mailto:tatiana.didik.0@gmail.com) ● Current Location: Weehawken, NJ (NYC Area) ●



**Software Architect / TPM**

Experienced Software Architect and Technical Project Manager with a proven track record of driving innovation and delivering exceptional results in complex software development initiatives. With a deep understanding of both the technical and managerial aspects of projects, excelling at bridging the gap between conceptual design and practical implementation. Expertise lies in architecting scalable and robust software solutions while effectively managing cross-functional teams to ensure on-time and on-budget project completion. Through strategic vision and hands-on technical proficiency, consistently leading teams to success, fostering collaboration, and surpassing client expectations.

**Core Competencies**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| * Java * Python * ShellScript * SQL * Flyway * Liquibase | * Maven * Gradle * Linux * Vagrant * ZeroMQ * RabbitMQ | * SpringBoot * Hibernate * LMAX * Cucumber * AWS * Azure | * Jenkins * GitLab * SonarQube * JProfiler * JMeter * K6 | * Agile * Scrum * BDD * UML * DB2 * Git | * JIRA * Gerrit * RestAPI * Sybase * MS SQL * PostgreSQL | * JBoss * Mockito * SVN * HTML * MongoDB * EC2 |

**Certifications**

|  |  |  |  |
| --- | --- | --- | --- |
| **Oracle Certified Associate** | Java SE 7 Programmer I | **90%** | January 2015 |
| **Oracle Certified Professional**  **AWS Certified Developer** | Java SE 7 Programmer II  AWS Certified Developer | **86%**  **83%** | February 2015  August 2020 |

**Professional Experience**

|  |  |
| --- | --- |
| **BJSS INC / Software Architect/TPM / Full Time** | **Apr 2018 – Current** |

BJSS is an award-winning (Queen’s Award for Enterprise) delivery focusing IT consultancy

|  |  |
| --- | --- |
| **Goldman Sachs Services LLC / Internal Audit** | **Jan 2022 – Jan 2024** |

* Served as a Technical Project Manager, overseeing the entire greenfield project development lifecycle from initial discovery to production deployment.
* In collaboration with a Technical Architect, conducted a two-week discovery phase at project inception, defining project goals, setting up the environment, and outlining team responsibilities. This effort led to onboarding of a development team consisting of six people to execute the project. Over the life span of a project, coordinated work of up to 17 people, including up to 13 developers and 4 product owners
* Worked closely with Product Owners and Business Sponsors to identify project features and establish the technical design and architecture. Provided clear priorities to the development team and coordinated communication with other development teams to promptly resolve inter-project dependencies. Actively participated in feature code review and acceptance, ensuring adherence to high-quality standards in terms of code test coverage and final product quality.
* Introduced various technologies and processes to the department, including the onboarding of a database management system and end-to-end API testing coverage technologies. Provided support to other teams adopting these technologies.
* Spearheaded efforts for performance testing before the product's launch, developing performance testing scripts that could be executed from a CI/CD pipeline. Proposed automation of integration tests to maintain a high level of integration with external systems.

|  |  |
| --- | --- |
| **BP – IST / Trading Platform** | **Mar 2021 – Jan 2022** |

* As an integral team member, participated in creation of a cloud-hosted trading risk management platform. Along with team members, defined architecture and implementation details for the project, making codebase reusable and scalable. Integrated database structure management system for reliable & reproduceable database schema management.
* Defined & implemented a process for code management: defined & maintained CI/CD pipeline & code management process, including rules for merging code into the main branch, test coverage report, and release process allowing to install a new version of code along with configs onto a host in the cloud.
* Defined and maintained Agile transformation processes, converting the development process from having a list of high level task descriptions in csv document and no plan / release process to scrum-like version of management including maintenance of tasks in task management system (ADO), tasks workflow, planning & regular release process with sprints tied to releases.

|  |  |
| --- | --- |
| **NHS 111 / Appointment Booking System** | **Aug 2020 – Mar 2021** |

* Worked as an integral team member of a mostly UK based team, proactively contributing to technical and architectural decisions as well as to implementation of an AWS-based highly available and responsible serverless booking system, built from scratch within extremely tight deadlines. Advocated a maximum test coverage, allowing for close to zero backend defects throughout the project. Implemented some of the critical parts of functionality.

|  |  |
| --- | --- |
| **ConEd / Mobile App** | **Jul 2020** |

Lead the technical efforts on consolidation of business requirements for an internal mobile application. Composed diagrams allowing to track user journeys throughout the proposed application.

|  |  |
| --- | --- |
| **Goldman Sachs / Client Onboarding Technology** | **Jan 2020 – Jul 2020** |

* Initiated incorporation of integration tests into development process with implementation of a generic solution based on Cucumber framework. Minimization of the time and effort required for writing an integration test scenario allowed for better test coverage and reduction of manual regression testing, significantly shortening feedback time and improving release quality and frequency, while advantages of Gherkin language allow scenarios to be written by non-technical business owners and users, shifting development process towards BDD approach.
* As an integral team member, actively participated in implementation of a client onboarding system. Namely, created an algorithm for grouping relevant documents for joint agreements, optimizing negotiation process by reducing required number of documents by duplicate elimination. In collaboration with agile team of 6 people, was engaged in implementation, code review and enhancements of the system implemented with Rest API based microservice architecture backed by Spring Bootstrap framework.
* Took part in agile transformation, introducing improvements for the team day-to-day processes, such as: essentiality, format and goals of retrospective meetings; consistent approach in use of story points; necessity of backlog grooming sessions as a pre-requisition for sprint planning.

|  |  |
| --- | --- |
| **Refinitiv / Active Trading** | **Jul 2018 – Jan 2020** |

Automated performance analysis of several high load applications with customized tools written from scratch on Python, utilizing Pandas and Matplotlib libraries. The tools are used routinely for baseline tests performance analysis for all major releases and are visualizing latency and throughput metrics. Created and maintained Kibana Dashboards with Timelion visualizations, allowing to get live performance data from production system.

Developed configurable instrumentation implementation for a custom thread pool framework allowing to locate performance flaws in the thread pool itself as well as in external code utilizing it. Automated instrumentation and execution latency analysis with Python and Kibana visualization, allowing to track performance issues down to a code line location and correlate performance recessions with GC events. Using the instrumentation and analysis tools, detected and fixed a performance issue, resulting in 5 times latency improvement in 99 percentile, 3 times in average and allowing to increase throughput by 10% in the affected module.

Utilized Cucumber and Spock with PowerMock in a Gradle project to create unit, functional and integration testing frameworks for message driven module and for thread pool implementation. Refactored an overly complicated multi-threaded module, allowing easily support and maintain the code, providing clear visibility of context switches.

Created a tool for parsing and comparison of BIOS and network settings printouts from 100+ servers, allowing to find and fix inconsistencies. Applied various BIOS configurations using Conrep tool and executed performance tests allowing to determine gains and hazards of use of various BIOS settings and network interfaces of higher capacities. Verified update of unified BIOS and network configurations for over 50 servers in production.

* Actively participated in Agile transformation, suggesting and maintaining process improvements, such as task estimation and planning, peer code review.

|  |  |
| --- | --- |
| **Low Latency Trading in a Cloud** | **Apr 2018 – Jul 2018** |

* Worked as an integral team member developing and delivering an experimental low latency trading platform in the cloud (AWS, Azure and Oracle). Specific achievements included fine tuning the implementation and usage of the LMAX Disruptor pattern to maximize performance whilst executing in a virtual environment and advanced tuning of the G1GC garbage collector to significantly reduce jitter within the overall architecture.

|  |  |
| --- | --- |
| **JENKINS / Sonar-Gerrit Plugin / Open-Source** | **2015 – 2017** |

* Developed, documented and maintained a plugin for Jenkins, allowing to post SonarQube report data as a Gerrit review. It was installed to up to 2000 Jenkins instances worldwide.

|  |  |
| --- | --- |
| **MAGENTA TECHNOLOGY / Echo / Software Engineer / Full Time** | **May 2010 – Jun 2014** |

Project: **Echo** is a Microsoft Gold Partner award winning taxi dispatch enterprise software written in Java. The project is managed with Apache Maven, is based on relational database (MS SQL), accessed with Hibernate JPA via JBoss application server. Inventory used on this project includes JIRA, SVN, TeamCity.

* + Implemented software modules including: fully configurable driver salary calculation, reporting and processing module; dynamic delay calculation as a part of the award-winning scheduling and auto-allocating features; framework for integration with external taxi aggregators (composing about 20% of corporate bookings in total) along with integration with One Transport taxi consolidator (now supplying businesses powered by Echo with thousands of cars monthly;
  + Participated hands-on in functional specification design; contributed into system redesign allowing partnering companies such as greentomatocars and Trident Niven to share their resources and employees. This partnership allowed the companies to decrease by 13% the out-sourcing of spilling-over bookings;
  + Was responsible for support and enhancement of a custom Java Swing UI framework allowing to generate UI components from xml files. Implemented a mechanism of editable fields highlighting in accordance with validation needs. Developed automated performance tests using TestComplete allowing to locate UI memory leaks and initiate heap dump when necessary. Performed detailed heap dump analysis with JProfiler, implemented a fix destroying circular links, preventing Java garbage collector from reclaiming unused objects. As a result, RAM allocation by the application has reduced dramatically.

**Education**

|  |  |
| --- | --- |
| SAMARA STATE AEROSPACE UNIVERSITY / Samara, Russia  Applied mathematics & informatics BS & MS | MS 2010 – 2012  BS 2006 – 2010 |