***Alexander Yakushev***

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**Education: 1985-1992**  Saratov State University MS in Physics and Computer Science

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With over 25 years of experience in software development, I am a quick learner committed to team success. I bring creative thinking and an interest in exploring new domains. Self-directed professional, able to work independently or as a team player.

Strong coding skills, experience in design and architecture projects from scratch.

**Skills:**

**AI:** GitHub Copilot, Open AI, DeepSeek Api

**Languages :** Java, Node JS, React, TypeScript, JavaScript, Python

**Frameworks :** Spring Boot, Restful, Microservices

**Tools :** Linux, Docker, Git, Databases, AWS

**Professional Experience:**

**03/2024-Present Freelance Remote Full-stack Developer**

**Technologies:** React, Node JS, Spring Boot, Restful, GitHub Copilot, VS Code, Open AI, DeepSeek

I took time away from the workforce to focus on important family responsibilities, including serving as a caregiver for my mother, who has Alzheimer’s.

Architect and develop web portal. The front-end and back-end were built using React and Node js as server. Chart components designed and implemented as D3-js components. Integrated , Open AI, DeepSeek api with Node JS.

Re-engineering an Angular web portal into React, Node.js, and Java Spring Boot. Resolving NPM dependencies. Containerizing the React / Node.js application.

**06/21-03/24 BNY Mellon Woodland Park, NJ Hybrid Senior Back-end Developer**

**Technologies:** Spring, Spring Boot, Restful, AWS, AWS Elastic Beanstalk, Kafka, Python, VsCode, WebFlux

Participating in the development and testing of new BNY Mellon Authorization services, account management, and other BNY Mellon projects. Utilizing Junit, Jasmine, Karma and other unit tests.

Designed and developed a new REST API and portal code for externalizing configuration and protecting secrets (centralized security services).

Redesigning Restful services to utilize Spring Cloud, WebFlux, Eureka, Feign, Feign Load Balancing, Api-gateway, and configuring a Zipkin, Circuit Breaker, improving service performance, upgrading to the latest versions.

Analyzing and fixing project vulnerabilities using the Veracode framework. Addressing issues such as hard-coded sensitive information, SQL or code injection, and configuring Csrf, Jwt tokens, CORS, actuator, Swagger tools, OpenAPI, HAL-explorer.

Deploy applications in the private cloud infrastructure.

**05/17-04/21 Bank of America Jersey City, NJ Sr. Back-end Software Engineer**

**Technologies:** Spring Boot, Spring MVC, Scala, Restful, Docker, Selenium, Python, AWS, React, Kafka, Python, Redis

Architect and developed robust and dynamic client-side functionality for the 'Mail-Compilation' web portal, utilizing a REST API to perform CRUD (create, read, update, and delete operations). Enhancing Rest Api using Hateoas. Configured Rest API context negotiation using Http headers supporting versioning, or internationalization.

I participated in development of “Forecast Connect” analytical web portal.

Developed the “Reference Data” portal, utilizing Resource Description Framework – RDF. Designed and implemented Rest API, validation, errors handling e.t.c.

Developed unit tests, utilizing Junit, Java sockets, and Selenium. Selenium framework to test web pages, and user login functionality.

Optimizing and redesigning code with low latency operations. Optimizing SQL quires, SQL performance tuning.

**03/15-10/16 Medmeme New York, NY Sr. Java Software Engineer**

**Technologies:** Java EE, Python, Spring , Solr, Neo4J, NLP, SVD, D3.js, Prolog, AWS, Machine learning, Matlab

Architect and implemented a highly optimized system with low latency for medical data collection, semantic analysis, and presentation. The newly designed system processes billions of records. The data includes publications, meetings, drugs, clinical trials, diseases, and scientific research. Utilized machine learning algorithms, such as NLP and classifiers.

The high performance of data mining was achieved by incorporating multi-threaded, in-memory incremental data processing, utilizing highly optimized custom caches and search algorithms, and implementing parallel calculations.

Graph chart components were created using SVD (D3.js open source). The initial version of the application was implemented as a Neo4J graph database; subsequently, it was redesigned by embedding SWI Prolog. The use of Prolog simplified the rules, data definitions, and parsing.

**12/13-01/15 Starwood Hotels Stamford, CT Sr. Web application developer**

**Technologies:** J2EE, Core Java, JSF (Primefaces), Spring, Hibernate, Maven, Web Services/SOAP, RESTful

Participating in the development of the front-end web for the Starwood Central Reservation System (SPG portal).

Developed fully functional consumer-facing web portal, enhancing business logic services through the utilization of JSF, AJAX, and jQuery, ensuring an intuitive and dynamic user experience.

**05/11-12/13 McKinsey New York, NY Java Software Engineer**

**Technologies:** Spring, Hibernate, MySQL, JDBC, Web Services, Tomcat, Jetty, Maven, SoapUI, Apache phpBB

Undertook critical refactoring of the OilDesk project, transitioning it from legacy Java 4 to the latest Java 7, along with Spring and GWT technologies. OilDesk is a crucial web portal for managing the logistics and pricing of crude oil products. I improved the build process by migrating it to Ant, ensuring a more streamlined and efficient development workflow. Re-engineered non-compilable, outdated code, replacing outdated APIs with the latest ones. Conducted bug fixing and implemented new functionality.

Participated in all aspects of the Software Development Life Cycle (SDLC) for the Bloomberg Terminal system, including middle-tier design and development. Applied Java annotations for runtime database validation and designed and implemented the user account management system.

**11/10-05/11** **Resolute Digital New York, NY** **Java Software Developer, and Project Architect.**

**Technologies:** Spring, Hibernate, JAXB, MySQL,Ant, Apache POI, Tomcat

Designed and implemented the Samsung “Help Center” website for mobile devices. Developed a web application that automatically converts standard DHTML into a format accessible on mobile devices. This application is capable of processing XML data from three data sources: Samsung (products, features, specifications, images), Digital River (sellers, stores, pricing), and Bazaar Voice (ratings, reviews, comments).  
Automated parsing of complex XML by using JAXB.   
Challenges: implemented the search page with multiple search criteria: TV/Plasma/Resolution/Product/Prices. Used Ajax, and JQuery API. I architected and developed the framework based on data-driven web templates that made the site highly manageable and extendable.

**04/10-11/10 Moody's Corporation New York, NY Java Software Developer**

**Technologies:** Spring, AOP, Hibernate, JAAS, JCE, TSPM, WebSeal, BlazeDS, JaxB, DB2,Ant, Maven

I participated in the Moody’s Pyramid project, focusing on 'Rating-to-Cash' and 'Billing'. I designed and implemented secure communication between Flex UI components and Java, configuring BlazeDS for secure channel functionality.

I analyzed all DAO methods and created a PGs matrix, integrating this information with the IBM TSPM (Tivoli Security Policy Manager) framework and configuring IBM WebSeal. Throughout the project, I worked closely with two teams: Moody's and IBM.

**08/08-04/10 Verizon Wireless Orangeburg, NY Software Engineer**

**Technologies:** J2EE, Core Java, Spring, Ajax, JQuery,Ant,Maven,Python,TAL,Flex,Action Script,Nagios,Toad,Wings

I participated in the Lert - Workflow Management project. This website offered various document management tools, including search and reporting functionalities.

The first version of the portal was developed using Python, CherryPy, and SQLAlchemy. I was involved in migrating the portal from Python to a new stack that included Java, Flex, Spring, and Hibernate.

**08/07-08/08 Bank of America. New York, NY Java Software Developer**

**Technologies:** J2EE, Core Java, Struts, JSP, Hibernate, Junit, Ajax, ClearCase, Squirrel, Linux

I participated in the refactoring of the AIM-ESS web portal (Associate Investment Monitoring - Electronic Supervision and Surveillance) and the Pre-Clearance project. The original codebase lacked a design that accommodated multiple policies, necessitating a comprehensive refactoring. I conducted the code refactoring using Object-Oriented Analysis (OOA) and Object-Oriented Design (OOD), designed the code with JUnit test cases, and optimized SQL queries.

**07/05-08/07 Motorola Fort Lauderdale, FL Software developer. Web Applications Developer**

**Technologies:** J2EE, Core Java, Hibernate, JSF, Jasper Reports, Apache DBUtils, Oracle, Ajax, Linux

I designed and developed Motorola's "Job Maintenance" internal portal. This site allows Motorola team members to manage jobs previously submitted to one of the six technology areas: Outsourcing, Development Engineering, Freeform, Modeling, Molding, and Machining.

**01/04-07/05 IBM Raleigh, NC Software development consultant. Web Applications Developer**

**Technologies:** J2EE, JDBC, Struts, JSP, Servlets, Applets, Java Script, JMX, Ant, Eclipse, Tomcat, Linux, parsing documents

I worked on the DLC (Dynamic Linux Configuration UI) graphical tool, which is part of the RSS (Retail Store Solutions) portal framework, and developed Linux configuration services. Implementing code with low latency.

Additionally, I developed the 'Smart Help' framework for the IBM SCR (Setup Cash Register) project. The Smart Help system assists in resolving issues such as conflicts in deploying RPM packages on client machines and hardware problems. All GUI components have been implemented with Internationalization (NLS).

**03/00-01/04 Xpoint Technology Boca Raton, FL Java/C/C++ Software Developer**

**Technologies:** Java, J2EE, Core Java, Applets, JSP, JMX, EJB, JNI, RMI, JDBC, XML, Ant, Jboss, Linux, C/C++

I participated in the design and development of a remote computer backup/recovery and software distribution project. I developed a number of custom native services written in C/C++ for the target platforms – PC and Linux. Communication between these services and Java is facilitated through the JNI API or native Socket API.

Additionally, I architected and developed a standalone Java Applet application. Utilizing Object-Oriented Design (OOD) allowed for the introduction of new functionalities to standard Swing components, such as Drag and Drop (DnD), image rendering, an embedded web browser, and others.