

Diana Alisevich

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PROFILE

Results-driven Software Engineer with extensive experience in developing and optimizing event-based applications. Proficient in enhancing data management and caching strategies, implementing cost-effective solutions, and designing frameworks for high availability and performance. Strong background in test automation and managing deployments, with a track record of driving efficiency and reliability in software engineering practices.

EDUCATION & CERTIFICATIONS

Boston University - Master of Science in Computer Science Sep 2023 - Apr 2025 (Expected)

Coursework: Programming Design Paradigms, Database Management Systems, Algorithms

University of Massachusetts Boston - Bachelor of Computer Science Jan 2019 - May 2022

Coursework: Data Structures, Object-oriented Programming, Software Engineering, Web Development

Scaled Agile, Inc. - Certified SAFe 6 Practitioner June 2024

TECHNICAL SKILLS

Languages: Java, Python, SQL, C, JavaScript, CSS, HTML, Scala

Databases and Operating Systems: RocksDB, NoSQL, Memcached, Redis, PostgreSQL, Oracle, SQL Server, MySQL, Linux

Developer Tools: AWS, Docker, Kubernetes, RESTful APIs, Vert.x, GIT, JIRA, Jenkins, Maven, Helm, IntelliJ, JUnit, Agile, Scrum

PROFESSIONAL EXPERIENCE

Tracelink, Inc - Wilmington, MA Jan 2024 - Present

Software Engineer

- Engineered and improved event-driven applications in Java and RxJava to facilitate critical database functions, including audit information and scheduled snapshots, ensuring robust data management and operational efficiency.
- Designed and optimized data and query caching strategies using Memcached, significantly enhancing application performance, reducing latency, and improving reliability. Identified and resolved potential caching-related bugs, collaborating with cross-functional teams to ensure seamless integration and efficient utilization of caching solutions.
- Implemented an app bundling feature enabling the deployment of multiple applications within a single Kubernetes pod, leading to significant reductions in AWS storage costs and overall storage optimization.
- Created and customized Grafana dashboards to monitor and visualize database metrics, including storage usage, write operations, query performance, and retrieval statistics. This enabled real-time tracking of key performance indicators and facilitated proactive database management and optimization.
- Worked on enhancing application interactions with the RocksDB database, boosting performance and availability through efficient TCP connections and customized database management solutions.

Tracelink, Inc - Wilmington, MA Sep 2021 - Jan 2024

Software Development Engineer in Test II

- Created and refined Java-based testing applications with RESTful APIs to validate the reliability and performance of internal databases, using boundary testing, stress testing, and scenario-based validation to provide accurate results.
- Managed application deployment and monitoring using Helm and Elastic Kubernetes Service. Automated Jenkins jobs to replace manual processes and delivered detailed reports and recommendations to enhance quality engineering practices and address potential improvements.
- Developed a test framework to validate cross-region database replication and data consistency. Created extensive JUnit test scenarios for API endpoints to verify data integrity, performance, and stability.
- Wrote Python scripts to automate data migration and snapshot creation, significantly improving process efficiency and reducing the likelihood of manual errors.

PROJECTS

Student Management System May 2024

- Created the system design and architecture for a student management platform, focusing on implementing various design patterns in Java to ensure scalability and maintainability.
- Developed and optimized the application with Java and GraalVM, enhancing performance and integration.

Store Inventory Management System Feb 2022

- Designed a SQL-based database for a retail store, including tables, relationships, and queries to manage inventory.
- Implemented a Java application to connect to the SQL database, providing a user-friendly interface for store management to interact with the database, perform transactions, and generate reports.