

DAVID DAVAATULGA

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SENIOR SOFTWARE ENGINEER

AWS Certified Software Engineer with 6 years of experience in the fintech and telecom industry, developing, deploying, and delivering high-quality and high-performance software solutions using Java and Spring Boot. Passionate about building scalable, maintainable systems, optimizing development workflows, and proficient in the agile development methodology. Hands-on experience utilizing different technologies like Python, Redis, Oracle Database, and Docker.

Microservice Architecture • Domain-Driven Design • System Scalability • Performance Optimization • DevOps
Continuous Integration/Continuous Deployment (CI/CD) • Secure Coding • Software Architecture Design

Languages: Java, Python

Web Services: REST

Web/App Servers: Apache Tomcat, Nginx

Frameworks: Spring Boot, Spring Cloud, Spring JPA, Spring Security, Spring MVC, Spring Reactive, Hibernate, JUnit

Databases: Oracle, Postgres, MongoDB, MSSQL

Design Patterns: Singleton, Factory Method, Observer, Strategy

SDLC: Scrum, Scaled Agile (SAFe), Kanban

Tools: Git, Maven, Gradle, Postman, Ansible, Redis, Kafka, RabbitMQ, ActiveMQ, Docker, Github Actions, Gitlab CI/CD, Azure Pipelines, Jenkins, SonarQube, JFrog, Acunetix, ff4j, Apigee

Platforms: Linux, MacOS, Windows

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

KHAN BANK, Ulaanbaatar, Mongolia • 01/2023 – 01/2024

Commercial bank.

Senior Software/DevOps Engineer

Senior DevOps Engineer of Software Development and Automation Team

- Upgraded Spring Boot across Java microservices, enabling K8s service discovery, deprecating Spring Eureka, facilitating cross-namespace communication and independent dev environments, reducing lead time by 20%.
- Reduced deployment pain by deploying customized ff4j, a Java-based feature flag framework, to allow feature flag functionality, increasing deployment frequency by 30%.
- Integrated SCA, SAST and DAST security scanning tools into microservice CI pipeline with shift-left approach, using Jenkins, JFrog, SonarQube and Acunetix, improving security risk detection and halved resolution time.
- Implemented Continuous Deployment pipeline for API Gateway to deprecate manual deployments, utilizing Jenkins, Python and Apigee APIs, reducing human errors by 99% and accelerating deployment speed by 80%.
- Successfully rolled out a Service Mesh architecture using Gloo Mesh and Python in the production environment, improving inter-service communication and increasing observability across multiple live Kubernetes clusters.

Technologies Used: Java, Spring Boot, Python, Maven, Docker, JFrog, SonarQube, Acunetix, ff4j, Apigee, Jenkins

M BANK, Ulaanbaatar, Mongolia • 03/2021 – 01/2023

First neobank in Mongolia.

Senior Backend Developer

Senior Backend Developer of Payment Systems

- Architected and deployed M Bank's high-capacity payment system, leveraging Spring Boot, Spring Reactive and Kafka, successfully handling over 1 million transactions on day one.
- Developed and optimized payment microservices using Oracle REST Data Services and Redis Cluster, achieving sub-10ms average transaction time and enhancing overall system performance.
- Implemented version-controlled database schema changes across 15 microservices by integrating Liquibase into the microservice CI pipeline, resulting in an 85% reduction in database migration time and enabling seamless rollback capabilities for database changes bundled with microservice deployments.

- Led backend chapter initiatives, implementing knowledge sharing platforms and standardized documentation practices by customizing and setting up DokuWiki, reducing repeated support requests by 90% and improving backend team efficiency.
- Conducted comprehensive training programs for 10+ developers, focusing on secure payment processing, secure coding and clean coding techniques, while implementing regular code review processes, resulting in improved code quality and security compliance.

Technologies Used: Java, Spring Boot, Spring Security, Spring Reactive, Redis, Kafka, Oracle REST Data Services

MOBICOM CORPORATION, Ulaanbaatar, Mongolia • 03/2018 – 03/2021

Largest mobile phone operator in Mongolia.

Backend Developer

Backend Developer of ISP and Application Team.

- Developed Low-Level Designs for new features, leveraging distributed system principles and design principles, resulted in creation of 10+ highly scalable and maintainable features for mobile application and ISP backend systems.
- Refactored monolithic ISP system into microservices, with containerization and deployment pipelines using Docker and Gitlab CI/CD, accelerating feature releases from weekly to daily and improving system modularity.
- Overhauled legacy mobile app backend services, optimizing database queries and implementing caching strategies utilizing Spring Boot, Oracle and Nginx, reducing resource usage by 50% during peak loads and enhancing app performance.
- Migrated over 30 systems from SVN to Git, leveraging Gitlab and Gitflow branching strategy, resulting in a 40% increase in code review efficiency and a 25% reduction in merge conflicts compared to the previous SVN workflow.
- Designed and built an advanced digital signature functionality for SIM cards using Java Card with secure protocols and optimized memory allocation, accelerating KYC processing speed by 30%.

Technologies Used: Java, Spring Boot, Spring Eureka, Oracle, Nginx, Gitlab CI/CD

INTERNSHIP EXPERIENCE

Trade & Development Bank, Ulaanbaatar, Mongolia • 07/2017 – 09/2017

Commercial bank.

Software Engineer Intern

- Collaborated with core banking team to implement two new features using Java and Spring Boot.
- Enhanced Java proficiency within a banking environment, successfully diagnosing and fixing 30 minor issues across core financial systems, contributing to improved system stability and reliability.

Technologies Used: Java, Spring Boot, Jira

ACADEMIC PROJECTS

Maharishi International University (2024) Student Registration System: Developed a comprehensive backend service using Java, Spring Boot, MySQL, and Maven to manage complex relationships. Implemented RESTful APIs for CRUD operations and designed an optimized database schema. Teamed with a frontend developer to integrate with a React-based user interface, resulting in a fully functional, responsive web application

Maharishi International University (2024) Real Estate Platform: Implemented microservices for a real estate marketplace using Java and Spring Boot. Developed an admin dashboard and a Real Estate Agent microservice. Integrated microservices with user activity logging via Spring AOP. Implemented security features like login attempt limitations and soft deletion using Spring Security

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 11/2026)

Maharishi International University, Fairfield, Iowa

Key Courses: Enterprise Architecture, Algorithms, Software Engineering, Advanced Software Development

Bachelor in Computer Science

Mongolian University of Science and Technology, Ulaanbaatar, Mongolia