

# SAINZAYA BATKHUU

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## FULL STACK DEVELOPER

Experienced full stack developer with 10+ years of experience working on implementing, designing, testing, and maintaining software systems using Java technology within the financial sector and private sector. Skilled in employing Agile methodologies and DevOps practices. I am proficient in Angular, NestJs, Typescript, Java, Spring boot, REST, MySQL, Oracle Database, and MongoDB.

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Java Programming • Web Application Development • Finacle System Integration • Multithreading • Spring Framework • Data Structure • System Design Architecture

**Languages:** Java, JavaScript, TypeScript

**Web:** HTML, CSS, Bootstrap, JSP, jQuery

**Web Services:** RESTful, WebSocket, Microservices, JSON

**Web/App Servers:** Apache, Jetty, NGINX

**Frameworks:** Spring Boot, Spring Security, Spring Data, Spring Cloud, Spring Framework, Spring Hibernate, Angular, NodeJS

**Databases:** MySQL, MS SQL, Oracle, MongoDB

**Design Patterns:** MVC, Singleton, Session, Observer, Structural, Dependency Injection

**SDLC:** Agile, DevOps, V Model, Waterfall

**Tools:** IntelliJ IDEA, WebStorm, VS Code, Docker, MySQL Workbench, SQL Server Management Studio

**Platforms:** Linux, Windows, AWS

**Application/Software:** Finacle Digital Banking Platform (Infosys)

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## 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).

### GOLOMT BANK, Ulaanbaatar, Mongolia • 09/2012 – 10/2023

Commercial banking institution.

#### Software Engineer (06/2020 - 10/2023)

- Served as the lead developer for the entire Loan Process Automation project, collaborating with the Infosys team, utilizing Java v6 and Oracle database.
- Collaborated with staff to enhance Swift transaction capabilities in the Loan Origination System (LOS) and the core banking system, using Java v6 and Oracle database.
- Integrated credit information from the LOS with the Document Management System by implementing new APIs, using Java v6 and Oracle database.
- Utilized agile methodologies to manage project timelines, deliverables, and stakeholder expectations, leading to successful on-time delivery of projects.
- Conducted code reviews, unit testing, and integration testing to ensure high-quality software and adherence to industry best practices.
- Provided ongoing support and maintenance for banking applications, troubleshooting issues and implementing enhancements to improve system performance and reliability.

#### Software Engineer (09/2012 - 06/2020)

- Performed Java code and query improvements to improve the speed of the E-Banking login section by up to 30%.
- Increased the speed of 50 reports by 50% by performing query optimization on the main reporting system of the bank. Integrated Google Maps on the bank's profile site to display branch locations and their open or closed status, significantly reducing the number of operators calls regarding open branches.

- Established a connection with the Mongol Bank's new system. If the Bank does not connect to the system in time, it reduces the risk of loss of reputation and money.
- Led the development of the bank's ERP system from the ground up. It has been possible to reduce the cost of purchasing an external ERP system, and it is possible to expand without depending on a third party.
- Contributed as a member of the implementation team for the Finacle system, ensuring a smooth migration from the old system by integrating small ancillary systems with Finacle.
- Developed the KAIZEN module within the ERP system to support innovative ideas and motivate employees by transforming their ideas into actionable projects. With this new module, the bank can improve itself.
- Created a card order page using the bank's PHP/Symfony framework, HTML, JavaScript, CSS, and MySQL, introducing the foundation of the digital bank and allowing customers to order cards online without visiting a branch.

***Technologies Used:*** Java, JavaScript, XML, Drools, HTML5, CSS3, ORACLE Database, Linux OS, Oracle Database, MongoDB, MySQL Workbench, Jasper report, Agile Methodology, DevOps Methodology,

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## ACADEMIC PROJECTS

**Maharishi International University (2024) Blog Registration:** Blog Registration has a simple admin page where you can get, register, add, view, and delete listings. It also has a section to show the blog to visitors. Utilized JavaScript, Nodejs, MongoDB, GitHub.

**Maharishi International University (2024) Real state Registration:** This project is based on a REST API and utilizes Spring Boot and a MySQL database. It features business logic for recording and managing the sale or rental of assets. Users can view and record information about these assets. The technologies employed for this project include Java, MySQL, GitHub, and Postman.

## PERSONAL PROJECT

**Bicheech.com 2014:** This project involved cloning Typingweb.com. It underwent a significant update and was converted to Java. In addition, members have been expanded to compete against each other to stimulate competition among members. The first version of the project was PHP, Symfony framework and MySQL. The latest version is Java, Spring Boot, Docker, MySQL and AWS.

**Daaluu Game 2024:** Developed a real-time small-game web application for global game competitions using Angular, NestJS, AWS, Redis and NoSQL. The project allows users to play in domino game. The frontend, built with Angular, ensures responsiveness and user engagement, while the backend, powered by NestJS, provides a scalable and maintainable architecture. A NoSQL database was integrated to efficiently data storage and retrieval. Key functionalities include user authentication, real-time updates, and leaderboard tracking. You can explore the application here: <https://daaluu.web.app/>.

## EDUCATION

### **Master of Science in Computer Science**

*(In progress via distance education; expected completion 06/2026)*

Maharishi International University, Fairfield, Iowa

***Key Courses:*** Web Programming, Software Engineering, Enterprise Architecture, Advanced Software Development

### **B.S. of Computer Science in Software**

Stars University, Ulaanbaatar, Mongolia