

LUVSANGOMBO GOCHOODORJ

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SOFTWARE DEVELOPER

Skilled Backend Developer with more than 4 years of experience in building enterprise applications in the finance sector using Golang and Java. Proficient in a diverse technology stack, including Golang, Java, Hyperledger, Ruby on Rails, and RESTful services. Adept at designing scalable, high-performance backend systems and integrating blockchain solutions to enhance security and efficiency in enterprise applications. Excelled in mathematics during high school, earning multiple medals in the National Mathematics Olympiad for outstanding problem-solving skills.

- Problem Solving • Data Structures • Object Oriented Programming (OOP) • Code Version Control
- Web Applications • Critical Thinking • Private Blockchain • Application Programming Interface (API)

Languages: Golang, Java

Web: HTML, JavaScript

Web Services: HTTP, XML, REST, RPC

Frameworks: Gin, Ruby and Rails, Spring boot, Hyperledger fabric, gRPC, Express.js

Databases: MySQL, CouchDB, PostgreSQL

Design Patterns: Singleton, Factory, MVC

SDLC: Agile

Tools: Postman, Visual Studio Code, Git, IntelliJ, Docker, Jira

Platforms: Linux, Windows, AWS

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).

COREX LLC, Ulaanbaatar, Mongolia • 04/2022 – 08/2024

A crypto trading and blockchain company.

Back End Developer

Backend development of crypto exchange platform.

- Created a decentralized data platform for the insurance association in Mongolia using Hyperledger Fabric to facilitate data exchange between insurance companies, resulting in enhanced data security and an 80% reduction in multi-compensation insurance fraud.
- Implemented backend service for the private blockchain to connect the blockchain and the system to access blockchain node using Gin and CouchDB resulting in seamless integration and efficient data exchange.
- Established a connection between the government data service and the crypto-exchange platform using OAuth2 and REST API, resulting in streamlined KYC (Know Your Customer) verification for the system and making the tasks of customer service representatives 50% easier.
- Devised a peer-to-peer transaction feature for the crypto exchange platform using RabbitMQ and Rails action controller, to improve user experience (UX), resulting in smoother and more efficient transactions.
- Developed REST and WebSocket APIs for a crypto exchange platform using Grape-API and Grape-Entity to add a liquidity pool, resulting in a 20% increase in user base due to increased liquidity pool and market efficiency.
- Maintained an event-driven crypto exchange platform using Ruby on Rails, RabbitMQ and Golang, ensuring continuity and reliability.
- Separated the "Quick Exchange" feature of crypto exchange platform into a standalone service, implementing gRPC in Golang to enhance communication efficiency and system modularity.

Technologies Used: Gin, Golang, gRPC, RabbitMQ, Grape API, Ruby on Rails, Hyperledger fabric, CouchDB, Chaincode.

INFINITE SOLUTIONS LLC, Ulaanbaatar, Mongolia • 05/2020 – 04/2022

A fintech, blockchain, AI/ML, cybersecurity, and entertainment-gaming company.

Backend Developer

Provided backend service.

- Optimized and maintained a legacy loaning system using AWS Lambda and DynamoDB, ensuring system continuity, scalability, and efficient performance while minimizing downtime.

- Established a secure OAuth2-based authentication system using Express JS, connecting the user authentication system with the government data exchange, reducing unauthorized access risks and support workers task by 60%.
- Created the Easy Pay method using RestClient and MySQL, allowing users to make QR code-based payments, reducing checkout times by 50% and enhancing user experience (UX).
- Developed RESTful APIs using Spring Web and Spring Data JPA to integrate a commercial bank with the instant payment system, improving transaction processing speed and ensuring high availability.
- Engineered a corporate gateway using Spring Security and JWT, enabling seamless interoperability between commercial banks and the instant payment system, increasing transaction throughput and reducing settlement delays.
- Re-architected the instant payment system using Spring Boot, significantly improving system efficiency by 10%, reducing loan approval times, and enhancing maintainability.

Technologies Used: *Java, Spring Boot, Spring Data JPA, OAuth2, JWT, AWS, AWS-Lambda, MySQL.*

FREELANCE EXPERIENCE

Smart ERP, Ulaanbaatar, Mongolia • 06/2019 – 01/2020

ERP software company.

Mobile Developer

Built Mobile UI.

- Built a brand-new mobile application using Flutter and REST API for an ERP system, making it easier for users and resulting in 300 downloads within a month.
- Implemented an authentication system for a mobile app using Google Auth and Firebase, resulting in secure user authentication.

Technologies Used: *Dart, Flutter, Google Auth, Firebase.*

ACADEMIC PROJECTS

Maharishi International University (2024)

- **Issue creating system:** Developed an event-driven REST API system with two components: an admin portal and a user portal. Users can create, update, and delete issues, while administrators can approve these issues. The system ensured efficient issue management and streamlined approval processes. Integration of all modules was achieved using Spring Boot and ActiveMQ for seamless communication. Utilized Spring Boot, ActiveMQ, MySQL.
 - **Policy Management App:** Created a full-stack application for policy creation using ReactJS and Tailwind CSS for the front end, and ExpressJS for the backend. Deployed the application on AWS S3, AWS EC2, and RDS. Users can perform CRUD operations on two entities, ensuring efficient management and a smooth user experience. Utilized ExpressJS, ReactJS, AWS, Tailwind.
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EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 04/2027)

Maharishi International University, Fairfield, Iowa

Key Courses: *Enterprise Architecture, Algorithm, Cloud Computing, Web Application Programming*

Bachelor of Science in Software Engineering

Mongolian University of Science and Technology, Ulaanbaatar, Mongolia (06/2021)

Bachelor of Science in Renewable Energy engineering

Mongolian University of Science and Technology, Ulaanbaatar, Mongolia (02/2019)