

PRAMISH THAPA

Backend Software Engineer

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SUMMARY

Backend Software Engineer with 2.5 years building production microservices in **Java** and **Spring Boot** on **Google Cloud Platform**, including 1.5 years on **Equifax**'s credit risk and identity verification platform at Oncore. MSc Software Engineering with **Distinction** from University of West London.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL

Backend: Spring Boot, Spring Security, Hibernate/JPA, REST APIs, Microservices

Cloud & Messaging: GCP (Cloud Run, Pub/Sub, Firestore, Cloud Storage, IAM), AWS, Apache Kafka, HashiCorp Vault

Data: MySQL, PostgreSQL, Firestore, MongoDB

DevOps & Testing: Jenkins, Docker, Kubernetes, Git, JUnit, Mockito, SonarQube

Frontend (working): React, Angular (in progress)

EXPERIENCE

Software Engineer — Oncore Software Solutions (US client: Equifax)

Sept 2021 – June 2023 | Remote, Kathmandu, Nepal

- Built and maintained **Java/Spring Boot** microservices on **GCP Cloud Run** supporting Equifax's credit risk and identity verification platform, collaborating directly with US-based senior engineers across timezones; presented technical work to client stakeholders in 50+ review meetings.
- Designed **Cloud Pub/Sub** publishers and subscribers for asynchronous service-to-service communication with messages persisted to **Firestore**; integrated with third-party verification APIs handling response transformation, error cases, and retry logic.
- Deployed services through **Jenkins** CI/CD pipelines and managed service credentials via **HashiCorp Vault**, working with SRE teams on **IAM** role configuration and production releases; resolved a production timezone bug in a date-filtering service caused by British Summer Time handling, identified through systematic comparison against the QA reference source.
- Wrote unit and integration tests with **JUnit** and **Mockito** achieving 95%+ coverage on owned services; enforced quality gates with **SonarQube** and **Fortify** static analysis to meet security and compliance requirements.

Software Engineer — InfoxIT Pvt. Ltd.

Jan 2020 – June 2021 | Butwal, Nepal

- Developed backend modules in **Java**, **Spring**, and **Hibernate** for an ERP platform used by banks and educational institutions, covering payroll automation, invoice generation, and inventory tracking.
- Designed **MySQL** schemas and ORM mappings for accounting, inventory, and dairy management subsystems; optimised SQL queries based on client feedback for improved query performance.
- Participated in full SDLC including requirement gathering, sprint planning, code reviews, and client demos within Agile Scrum teams; prepared test cases and verified functionality against business requirements.

CURRENT (SEPT 2024 – PRESENT)

Front of House — Compass Group UK & Ireland (on-site at Citadel London office)

- Self-funded MSc completion and full-time engineering re-entry by working on-site at Citadel London; daily exposure to one of the world's leading quantitative trading firms informed my preparation for backend roles in financial services.

Full Stack Development Programme — *IT Career Switch (Jan 2025 – Present)*

DevOps Engineering Programme — *ThinkCloudly (completed Aug 2025)*

PROJECTS

Mero Job Radar — Full-stack job aggregator for UK software engineering roles with built-in visa sponsorship tracking

- Automated scraping of **Reed** and **Adzuna** twice daily across 8 keyword searches per source; cross-references every employer against the UK Home Office Skilled Worker sponsor register to flag visa-sponsoring companies.
- Full-text search, smart filters (source, date, sponsorship status), auto-deduplication via Levenshtein distance matching, optional **Claude API**-powered career advisor.
- Stack: **React 18**, **Vite**, **Tailwind CSS**, **Node.js**, **Express**, **SQLite**, **node-cron**.

GitHub: github.com/Pramish17/MeroJobRadar

Smart Building Energy Prediction — MSc Dissertation, awarded Distinction

- End-to-end ML system predicting building energy consumption from real-time IoT data; combined Digital Twin technology with **Random Forest** and **Linear Regression** models.
- Stack: **Python**, **Pandas**, **scikit-learn**, **Flask** REST API, **React** dashboard, deployed on **Heroku**.

GitHub: github.com/Pramish17/energy-consumption-predictor

Credit Risk Scoring Service — Fintech backend microservice with explainable credit decisions

- Built a REST API in Java/Spring Boot that evaluates loan applications using a DTI-based weighted rules engine across five financial signals, returning APPROVE, REVIEW, or DECLINE decisions with the specific factors that drove each outcome.
- Persists every decision as an immutable audit record with input snapshot, computed score, and reasons; designed around the explainability and auditability requirements of regulated lending, directly extending my Equifax credit risk experience.
- Stack: **Java 17**, **Spring Boot 3**, **Spring Data JPA**, **Hibernate**, **Bean Validation**, **Lombok**.

GitHub: github.com/Pramish17/credit-risk-scoring-service

Spring Boot REST API — Production-style Java/Spring Boot service demonstrating clean backend architecture

- Three-layer architecture (Controller / Service / Repository) with **Spring Boot**, **Spring Data JPA**, **Hibernate**; transaction management with **@Transactional**, bean validation, and centralised error handling via **@RestControllerAdvice**.
- Unit tested with **JUnit** and **Mockito** following Arrange-Act-Assert; secured with **Spring Security**.

GitHub: github.com/Pramish17/spring-boot-rest-api

EDUCATION

MSc Software Engineering, Distinction — University of West London

Sept 2023 – Oct 2024 (Graduated Dec 2024)

- Dissertation: *Enhancing Smart Building Operations through Digital Twin Technology and IoT Integration* — implemented ML pipeline (Random Forest, Linear Regression) processing real-time building operation data.
- Relevant modules: Big Data Analytics, Machine Learning, Advanced Software Engineering, Web Development, HCI.

BSc Computer Information Systems, Upper Second (2:1) — Pokhara University, Nepal

2017 – 2021

CERTIFICATIONS

- Neural Networks and Deep Learning — DeepLearning.AI (May 2026)
- Full-Stack Engineer Career Path — Codecademy (Nov 2025)

LANGUAGES

English (fluent), Nepali (native), Hindi (fluent), Spanish (A2, 400-day Duolingo streak), German (A1, in progress)