

Sagar Subedi

Software Engineer
Bachelor of Engineering
Tribhuvan University

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🐙 GitHub Profile
🌐 LinkedIn Profile

SKILLS SUMMARY

Languages Java, JavaScript/TypeScript, Python, SQL
Frameworks Spring Boot, Node.js, Angular, Flutter, Apache Camel
Tools AWS, PostgreSQL, MongoDB, Firebase, Git/Github, Docker, Kubernetes, Maven, Jenkins
Soft Skills Problem Solving, Team Collaboration, Communication, Adaptability

EXPERIENCE

- Software Engineer** August 2023 - Present
Infinite Nepal (Formerly Cotiviti Nepal) Kathmandu, Nepal
 - Worked on the DxCG project, a healthcare data analysis and risk prediction tool.
 - Developed the backend using Java and Spring Boot, while the frontend was built with Angular.
 - Collaborated on the web application that allowed client licensing and usage monitoring.
 - Migrated all unit tests from **TestNG** to **JUnit** for better compatibility with Apache Camel.
 - Implemented specification based pagination to improve API performance and **reduced response time by 76 percent**.
- Software Engineer** Feb 2023 - Aug 2023
MarginTop Solutions Kathmandu, Nepal
 - Developed mobile applications to assist people with cerebral palsy or similar conditions.
 - Integrated ESP32 microcontroller via Bluetooth to control motors that deliver rhythmic massages.
 - Built the applications using Flutter for cross-platform deployment.
- Intern** Dec 2022 - Feb 2023
Nepal Telecommunications Kathmandu, Nepal
 - Learned about network architecture, maintenance, and troubleshooting in telecommunications.
 - Worked with team members to ensure network uptime and reliability.

PERSONAL PROJECTS

- Video Calling Application**
Developed a WebRTC and WebSockets-based Discord like app with Spring Boot backend and Angular frontend
 - Developed a WebRTC-based video calling application with a Spring Boot backend and Angular frontend.
 - Implemented video and audio calling features using STOMP WebSocket for signaling.
 - Incorporated Spring Security for authentication and authorization with stateless JWT based authentication.
 - Used Data JPA/Hibernate as ORM for database interaction.
 - Deployed on AWS EC2 using Nginx as a reverse proxy and Cloudflare for DNS server names.
 - Set up a CI/CD pipeline for deployment using Jenkins.
 - Registered and deployed on a custom domain: litcord.sagar88.com.np.
 - Technology Used: Java, Spring Boot, Angular, WebRTC, PostgreSQL, AWS, Nginx.
- Oppia: Online Learning Platform**
Contributed to an open-source platform designed to provide quality education to children in underprivileged regions.
 - Fixed bugs and ensured code consistency throughout the project.
 - Migrated pages from **Webpack to lazily loaded Angular modules** to improve performance and maintainability.
 - Collaborated with the open-source community and contributed to key features and improvements.
 - GitHub Organization: github.com/oppia/oppia
 - My Merged Pull Requests: [List of Merged PRs](#)
 - Technology Used: Angular, Python, Webpack, GitHub, Open Source Collaboration.

EDUCATION

- Bachelor of Engineering, Computer** 2018-2022
Institute Of Engineering, Tribhuvan University, Nepal First Division

ACHIEVEMENTS

- Code with Coffee Tournament First Runner Up** July 2022
 - Achieved 2nd place in an annual coding competition of college, showcasing problem-solving and coding skills.