

SUSMITA SHRESTHA

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Summary

Full Stack Software Engineer with nearly 3 years of professional experience building scalable and distributed web applications using Node.js, Python, React, and TypeScript. Skilled in designing robust REST APIs, implementing microservices architecture, and optimizing databases with MySQL, PostgreSQL, and MongoDB. Passionate about backend engineering, performance optimization, and cloud deployment. Strong advocate of clean, type-safe, and maintainable code.

Portfolio

[Website](#) | [LinkedIn](#) | [Github](#)

Experience

IGC Business Holding | Kathmandu

Full Stack Engineer | 05/2025 - Present

- Leading the development team in building a benchmarking and testing platform, driving architecture, feature delivery, and code quality.
- Designing and implementing scalable backend services using Node.js, NestJS, PostgreSQL and Redis, ensuring scalability and fault tolerance.

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Software Engineer | 06/2023 - 02/2025

- Designed and developed end-to-end features across frontend and backend using React, Node.js, NestJS, Express, and MySQL within a microservices architecture.
- Implemented unit testing, code review procedures, and enhancing code quality and reliability significantly.
- Participated in Agile Scrum ceremonies, including sprint planning, stand-ups, and retrospectives, to ensure seamless project execution.
- Demonstrated ownership and accountability for tasks while maintaining code quality and performance optimization.
- Collaborated with cross-functional teams of 15-20 members to deliver scalable and efficient solutions.

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Software Engineering Intern | 04/2023 - 06/2023

- Developed high-quality [Image Slider](#), [Box Collision](#), [Ant Smasher](#), and [Car Lane](#) games using DOM canvas in JavaScript.
- Devised a [Flappy Bird](#) game using ES6 JavaScript.
- Built a [photo editor](#) using JavaScript.

Upwork (Remote)

Freelance Flutter Developer | 04/2022 - 01/2023

- Collaborated on developing user-centric and minimalist interfaces for a health care application with a team of five developers, with the program's target audiences being patients and healthcare professionals.
- Designed and developed a mobile application for a restaurant enabling users to look at the menu, order food and also book tables.

Skills

- **PROGRAMMING LANGUAGES & FRAMEWORKS:** JavaScript, TypeScript, Python, C, C++, Dart, Node.js, Express, NestJs, BullMQ, React.js, FastAPI, Flutter.
- **DATABASE & ORM:** MySQL, PostgreSQL, Redis, MongoDB, Prisma
- **Tools & Technologies:** Git, REST API, Jira, Jest, Scrum/Agile, Docker, microservice, MQs and Kafka

Projects

Extractly - Web Data Extraction Chrome Extension (*Ongoing*):

Tech Stack: Python, FastAPI, React, Web Scraping, Chrome Extensions API, PostgreSQL

- Built a Chrome extension that extracts website data using natural language instructions using Gemini 2.5 pro applying fine-tuning and prompt optimization to accurately extract structured data from rendered HTML.
- Developed a FastAPI backend for intelligent DOM parsing and secure authentication.
- Created a React dashboard to store and display users' extraction history.

Vyaguta HRIS:

Tech Stack: Node.js, NestJS, Express, React, MySQL

Vyaguta is an Enterprise Resources Planning system for Leapfrog to manage day-to-day business activities such as Employee Management, Project Management, Team Management, Performance Management, Attendance and Leave Management, and Resources Management. Vyaguta as a business management software is used to collect, store, manage and interpret data from organization activities.

Benchmarking:

Tech Stack: Node.js, NestJS, Express, React, PostgreSQL, Redis, BullMQ

A multi-role benchmarking and testing platform that enables hotels and individual users to manage memberships, onboard teams, assign tests, and take skill assessments with full question versioning and multilingual support. It features an advanced analytics suite that visualizes performance.

Education

Kathmandu University | Dhulikhel
Bsc. in Computer Science | 06/2023

Certificates

- [Dart and Flutter - Zero to Mastery + Clean Architecture](#)
- [The Complete Dart Language Guide for Beginners and Beyond, Dart and Flutter](#)