

Siddhartha Shrestha

(Software Engineer)

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EDUCATION

Master of Science in Computer Science
Wright State University, Dayton, OH

Current

Bachelors of Science in Computer Science (3.6/4 CGPA)
Herald College Kathmandu, Bagmati Nepal

Oct 2019 - Jul 2022

Technical Skills

Programming Languages: JavaScript, TypeScript, Python, C++, Java, SQL, CUDA

Backend/Frontend Frameworks : NodeJS, ExpressJS, NestJS, Django, FastAPI, [Socket.io](https://socket.io/), ReactJS, Next.js.

Databases: MySQL, PostgreSQL, MongoDB, Redis

Cloud & DevOps: AWS, Docker, PM2, Nodemon, AWS CloudWatch, PowerShell

Data Science & Analytics: Scikit-learn, Pandas, Hadoop, PySpark

WORK EXPERIENCE

Software Engineer (Varosa Technology, Lalitpur, Nepal)

June 2024 – June 2025

- Developed backend systems using Node.js and Python with PostgreSQL, MongoDB and Redis, deployed on AWS within a microservices architecture to support millions of users globally in a VoIP service.
- Utilized pub-sub patterns for inter-service and asynchronous communication, enabling decoupled services and robust handling of large request volumes.
- Built GraphQL and REST APIs, adopting GraphQL to minimize over- and under-fetching and give clients precise data control.
- Designed core service classes using class-based approach and the Singleton pattern, COR pattern, to ensure controlled instantiation and clean resource management.
- Implemented Docker-based containerization and GitHub CI/CD pipelines, ensure consistency across environments and accelerate deployment cycles ensuring 99% services uptime.
- Applied data structures and algorithms knowledge to optimize database queries and caching layers

Backend Developer (Intopros Technology, Lalitpur, Nepal)

Jan 2023 – Jun 2024

- Developed diverse backend applications and tools using NodeJS, Python, MySQL, AWS services, serving the education, job portal, marketing, and social sectors.
- Query optimization for faster data load and processing.
- Build CI/CD pipelines, write automated tests, and monitor systems for stability
- Write clean, secure, easy-to-read code; conduct code reviews and enforce best practices.

MAJOR PROJECTS

[Hamilton](#): A voice modulation-based clothing e-commerce web app with CRUD functionality, featuring both admin and user dashboards and interactive voice-driven features.

[Analyticeport](#): Business Data Analysis report using Hadoop, Apache Spark, MongoDB, and Elasticsearch to generate insights on product sales, branch performance, shifts, staff efficiency, profits, and sales counts.

LEADERSHIP

Steering Leader, Herald College Kathmandu – Herald Devcorp UI Visuals Community | Sep 2020 – Nov 2022

- Delivered virtual sessions to hundreds of students across the country, boosting skills and job placement success.
- Built professional networks, inviting experts as tutors and guest speakers.
- Designed promotional materials and managed social media campaigns to drive engagement.
- Conducted seminars and managed sponsorships to support program growth.

