

# Siddhartha Shrestha

## (Software Engineer)

+1(326) 900-8587 | siddhartha.shrestha33@gmail.com | Dayton, OH

<https://github.com/Sid-stha7> | <https://www.linkedin.com/in/siddhartha-shrestha-8539421a0/>

### EDUCATION

#### Master of Science in Computer Science

Current

Wright State University, Dayton, OH

#### Bachelors of Science in Computer Science (3.6/4 CGPA)

Oct 2019 - Jul 2022

Herald College Kathmandu, Bagmati Nepal

### Technical Skills

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

**Backend/Frontend Frameworks :** NodeJS, ExpressJS, NestJS, Django, FastAPI, [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.

