

Suman Thapa

☎ +9779865024740 | ✉ sumanthapa3271@gmail.com | 🔗 LinkedIn | 🌐 GitHub | 📍 Kathmandu, Nepal

EDUCATION

Islington College (in partnership with London Metropolitan University) <i>BSc (Hons) Computing (First Class Honours)</i>	Kathmandu, Nepal 2019 – 2022
Orchid Science College <i>High School (Computer Science)</i>	Chitwan, Nepal 2016 – 2018

RELEVANT EXPERIENCE

Innovate Tech <i>Associate Backend Developer</i>	Kathmandu, Nepal Jan 2023 – Present
<ul style="list-style-type: none">Working on scalable microservices to develop features for an digital learning platform (<i>My Second Teacher</i>)Developing RESTful APIs using Express and Koa frameworks.Building real-time chat system using socket.io library, enabling features like private messaging, group chat, and user status tracking.Utilizing mongoose library to interact with MoongoDB NoSQL database, including defining schema models, performing CRUD operations and implementing queries for data retrieval.Implementing Sequelize ORM model to communicate with Postgresql.Integarting AWS services like Lamda, SQS, and SNS to develop de-coupled and reusable application features.Conducting in-depth research on Prosody, a modern lightweight and extensible XMPP communication server, exploring its features and architecture.	
Vairav Technology <i>Full stack software engineer</i>	Kathmandu, Nepal May 2022 – Dec 2022
<ul style="list-style-type: none">Developed scalable microservices that communicate over gRPC and Kafka.Developed APIs using Apollo GraphQL.Managed trigger based CDC (Change Data Capture) / Audit on sql databases like postgresql.Developed an interactive frontend implementing data visualizations, CRUD operation and microservices state management using React Js and Elastic UI.Implemented test case on previously written code using cypress.Occasional automation script development as per SIEM requirements.Implemented role based authentication/authorization middleware on backend services using keycloak as JWT provider.Implemented Prisma ORM model to communicate with SQL database and designated libraries to communicate with noSQL databases like Elasticsearch.Integrated session management on kibana.	
Level 9 Tech <i>Backend Developer Intern</i>	Kathmandu, Nepal Aug 2021 – Nov 2021
<ul style="list-style-type: none">Learnt to build applications using Django Rest Framework (DRF) and PostgreSql.Developed RESTful APIs for learning management system and airlines booking.Acquired unit testing concepts and performed unit testing on developed APIs.	

SKILLS

Programming Languages: TypeScript, JavaScript, Python, SQL.

Technologies & Frameworks: Node.js, Express.js, Koa, GraphQL, AWS, REST API, React, ELK stack, Git, Docker.

JWT Authentication API in Express JS | [GitHub](#)

- An authentication system APIs for user registration, login, forgot password, change password, and logout.
- Used MongoDB for storing and fetching users data.
- Implemented mail delivering feature using nodemailer package.

Cricket match prediction using Machine Learning | [GitHub](#)

- Developed a machine learning model for forecasting the outcome of a cricket match.
- Used decision tree classifier to develop the predictive model with key input features such as match timing, toss winner, venue, and more.

greenroots (Final Year Project) | [GitHub](#)

- A plant based mobile application built using Flutter and Django Rest Framework (DRF).
- Has plant scanning, smart weather check, and water reminder features.
- Allows users to browse and buy plants.
- Implements JWT authentication enhancing user security with essential features, including password recovery, email functionality, and secure logout.