SURAJ SHARMA

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Kathmandu, Province 2 - Nepal

OBJECTIVE

I am committed to deepening my knowledge in algorithms and computations. My objective is to engage in rigorous research, explore advanced concepts, and develop innovative solutions that address real-world challenges. Through collaboration and exploration, I aim to contribute to the community while enhancing my skills and technical expertise.

PROJECTS

- **Tourist Guide Bot using Transformer Model**   [⌂]
  Tech stacks : FastAPI, GPT2 transformer model, JWT Authentication
  ◦ It guides the tourists about the different places and culture of Nepal.
  ◦ It has pre-trained GPT2 model trained on our custom dataset related to the places of Nepal.

- **Text File Compressor**   [⌂]
  Tech Stack: FastAPI, python, PostgreSQL
  ◦ This application compresses and decompresses the text.
  ◦ In this application, Huffman coding algorithm is implemented manually i.e. no external module is used.

- **URL Shortner**   [⌂]
  Tech Stack: Flask , Python, HTML, CSS, JavaScript
  ◦ This application shortens the long url.
  ◦ Used ChatGPT to build the fullstack url shortner website.

EXPERIENCE

- **Sarphu Labs [🌐]**   *Aug 2024 - Dec 2024*
  Backend Developer(Contract)   Nepal
  ◦ Worked on the microservice architecture for the SaaS application features
  ◦ Built scalable RESTful APIs with a focus on security, clean code structure, and efficient PostgreSQL integration to manage data
  ◦ Conducted performance analysis on API responses and database queries, optimizing response times and resource usage
  ◦ Collaborated with cross-functional teams to integrate backend services seamlessly into broader system architectures
  ◦ Tech Stack: Python, FastAPI, PostgreSQL, JWT Authentication, Background Tasking, SaaS

- **CITA Algo Labs [🌐]**   *Jan 2024 - Aug 2024*
  Backend Engineer(Contract)   USA
  ◦ Worked on the multiple backends(FastAPI backend and MT5 backend)
  ◦ Built RESTful APIs with a focus on security, integrating the live trading data and managing the history trading data in mongodb
  ◦ Worked with cross-functional teams to ensure seamless integration of backend services into frontend system.
  ◦ Tech Stack: Python, FastAPI, MongoDB, JWT Authentication, MT5, Web Socketting

- **Shiv Trading [🌐]**   *July 2023 - Dec 2023*
  Backend Engineer(Contract)   Nepal
  ◦ Helped the client to take their business online
  ◦ Developed scalable RESTful APIs with a strong emphasis on security, maintainable code architecture, and seamless MySQL integration for efficient data management
  ◦ Performed performance analysis on API responses and database queries, enhancing response times and optimizing resource utilization
  ◦ Tech Stack: Python, Flask, MySQL, Flask-sqlalchemy, JWT authentication

- **Jupiter**   *Jan 2023 - July 2023*
  Backend Developer(Contract)   Nepal
  ◦ Built the backend system for linktree type social media platform

  ◦ Code optimization was done through learning and implementing

  ◦ Had written unit tests for the APIs testing

  ◦ Tech Stack: Python, FastAPI, SQLAlchemy, Docker and PostgreSQL

- **SEDS-Nepal [🌐]**   *Oct 2022 - Jan 2023*
  Backend Intern   Nepal
  ◦ Collaborated with team to develop a membership management system database Schema and APIs

  ◦ Wrote the optimized code.

  ◦ Did testing of the Restful APIs .

  ◦ Tech Stack: Python, FastAPI, SQLAlchemy, Docker and PostgreSQL

EDUCATION

- **Tribhuwan University(IOE)**   *Nov 2019 - Mar 2024*
  Bachelors in Computer Engineering   Dharan, Nepal

SKILLS

- **Programming Languages:** Python, MQL5, C++, C
- **Web Technologies:** FastAPI, Flask, Web Socket, JWT Authentication
- **Database Systems:** MySQL, PostgreSQL, MongoDB
- **Deployment Technologies:** C panel, Docker
- **Version Control:** Git, GitHub, GitLab
- **Specialized Area:** Backend Development, Robust and Scalable APIs, SaaS backend
- **Other Tools & Technologies:** MT5, Expert Advisor, SQLAlechemy, Alembic, JIRA
- **Familiar with:** Linux Server,Numpy, Pandas, HTML, CSS, Javascript, C#, Qt, .NET

TRAINING AND CERTIFICATIONS

- **Introduction to Machine Learning**   *Jan 2024*
  Kaggle   [🌐]
- **FastAPI Fundamentals**   *Oct 2022*
  Pluralsight   [🌐]
- **SQL Fundamentals**   *Oct 2022*
  Pluralsight   [🌐]

LEADERSHIP EXPERIENCE

- **Event Co-ordinator**
  Leo Club of Itahari Professionals   [🌐]
  ◦ Successfully managed a program to collect and distribute clothes to the needy, overseeing the entire process from collection to distribution.

  ◦ Directed, supported, and led a team to ensure the program's success.

- **Event Co-ordinator**
  Hackathon Event organized by DELTA   [🌐]
  ◦ Spearheaded a 48-hour hackathon for 35 teams (up to 4 members each), coordinating logistics and team efforts

  ◦ Facilitated seamless experience for 140+ participants by procuring and managing all required resources

  ◦ Oversaw continuous operations, ensuring smooth execution throughout the event's duration for all teams