

Niranjana Shah

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SKILLS SUMMARY

Languages: Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R
Machine Learning/Data Science: PyTorch, Scikit-learn, Pandas, Databricks
Web Development: ReactJS, NodeJS, FastAPI, NextJS
Data Visualization: Matplotlib, PowerBI, Tableau
Cloud Computing/ Deployment: AWS, Docker, Vercel
Version Control: Git, Github

EDUCATION

Master of Data Science in AI and Computational Modelling <i>University of Canberra, Australia</i>	2022-2024 6.6/7 GPA, 87.4%
Bachelor of Computer Engineering <i>Tribhuvan University, Nepal</i>	2017-2021

EXPERIENCE

Software Engineer Intern <i>Xaana.ai</i>	Sep 2023 – Nov 2023 <i>Canberra, Australia</i>
<ul style="list-style-type: none">Developed and enhanced frontend using React.js, improving user interfaces and overall user experience, while contributing to backend API development with FastAPIUtilized Grafana for building interactive dashboards, enabling real-time data visualization and monitoring for key performance metrics	
Jr. Software Engineer <i>Citrana Creatives</i>	Dec 2021 – Aug 2022 <i>Kathmandu, Nepal</i>
<ul style="list-style-type: none">Designed and optimized the database, improving operational efficiency and reducing data retrieval timeDeveloped backend services using Node.js, Firebase, and AWS S3, while creating a responsive frontend with React.js and Material UI, enhancing user experience and satisfaction	

PROJECTS

Project Management Tool - Flow | *Python, FastAPI, NextJS, PostgreSQL, JWT, AWS*

- Developed a Trello-like project management tool with a frontend in Next.js and a backend in FastAPI.
- Utilized AWS S3 for storing images and SQLAlchemy to query PostgreSQL, ensuring scalability and security.
- github.com/niranjankblank/flow_frontend , github.com/niranjankblank/flow_backend

LA Crime Data Analysis | *SQL, R, Python, Matplotlib*

- Analyzed temporal trends and identified key patterns in crime, improving data insights.
- Performed data cleaning and exploratory analysis, uncovering important statistics on crime types and victims.
- github.com/niranjankblank/LACrimeDataAnalysis

Lox Interpreter (Ongoing) | *Python, Interpreter Design*

- Building a Lox interpreter in Python, focusing on lexical analysis and tokenization.
- Enhancing problem-solving skills and understanding of programming language theory through compiler design.
- github.com/niranjankblank/lox_interpreter

Sentiment Analysis Using Deep Learning | *Python, Tensorflow, AWS, Pandas*

- Developed a deep learning model using LSTM for sentiment prediction, deployed backend on AWS EC2.
- Built a responsive frontend with React.js and Material UI, improving model performance and user experience.
- github.com/niranjankblank/SentimentAnalysisBackend

ADDITIONAL INFORMATION

- Languages:** English, Nepali, Hindi
- Paper Published:** “File Security System using Hybrid Cryptography and Face Recognition”
Presented in 2nd International Conference on Mobile Computing and Sustainable Informatics (ICMCSI 2021)
https://link.springer.com/chapter/10.1007/978-981-16-1866-6_38