Selisha Thapa

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EDUCATION

Northern Kentucky University – *B.S. in Computer Science* | Mathematics | ***GPA –*** *3.7* *Dec 2025*

- Relevant Coursework: Data Structures and Algorithm, Object-Oriented Programming, Database Programming(SQL), Advanced Programming, Computer Systems, Data Analytics & Visualisation, Theory of Computation.

EXPERIENCE

Software Support & COF – *Cincinnati Sports Club* *Aug 2024 – Present*

- Architected and deployed a **secure, internal AI-driven assistant system** leveraging NLP models for real-time query processing and knowledge retrieval.
- Developed and optimized **data processing pipelines** for handling structured and unstructured enterprise data..
- Designed **scalable backend services and RESTful APIs** in Python for automated query processing and system integration.
- Collaborated with external vendors as a **technical point of contact** for software integration and debugging.
- Integrated CI/CD pipelines using **Docker** and **Kubernetes** for automated deployment and feature updates.
- Engineered real-time monitoring dashboards using Flask, React, and SQL, leveraging stoplight indicators for anomaly detection, reducing quality defects by 30%

Research Assistant – *Northern Kentucky University* *May 2023 – Aug 2024*

- Finetuned an advanced **AI** model using the open-source **llama3** for integration with the EdgeX Foundry framework.
- Integrated conversational AI with edge computing, resulting in a **60%** reduction in server workload in distributed systems.
- Implemented **multi-threaded** programming techniques, achieving system performance boost through parallel processing.

Software Engineer – *Namaste Courier and Cargo* *Aug 2021 – Sept 2023*

- Collaborated to develop a user-friendly customer portal using **Angular** and **RESTful APIs**, enhancing user experience.
- Leveraged the **Parcel API** to integrate real-time parcel scanning functionality, reducing processing time by **15%.**
- Implemented a tracking system using the **CargoTrack API**, resulting in a **20%** reduction in delivery errors.

Teaching Assistant for Python – *Northern Kentucky University* *Jan 2022 – May 2022*

- Assisted a Professor in teaching Python to a class of **28** by evaluating exams, providing answers & delivering lectures.
- Helped students understand best coding practices, debugging & editor tools, and core concepts including arrays, pointers, **trees**, linked lists, stacks, queues, heaps, **graphs**, hash maps, algorithms, and functional programming.

PROJECTS

Vibeuno – *Next js React, Redux, Node.js, Stripe, HTML, CSS, JavaScript* ***Vibeuno***

- Developed a travel platform connecting locals with travelers to **browse, search, and filter** curated recommendations.
- **Built personalized user profiles** with **wishlists, saved itineraries, and travel history**, enabling **trip planning.**
- **Created a dynamic city-based feed** showcasing **user-uploaded photos, trending spots, real-time recommendations.**

Find-me – *Firebase, Express.js, React.js, Node.js, Typescript,Postgres*

- Developed a web app for students and professors to connect, promoting collaboration with complementary skills.
- Leveraged a **FERN** stack app with **CRUD** functionality, robust user authentication, and seamless data management.
- Utilized Express.js **APIs** for routing, handling **HTTP** requests/responses, and implementing middleware in the app.
- Stored and retrieved user notes using **Firestore(NOSQL)**, achieving faster data access and retrieval comparatively.

Real-Estate-Price-Predictor – *Python, NumPy, Pandas, Matplotlib, Scikit-learn, Jupyter, SQL*

- Developed a machine learning model to predict prices based on area & rooms, achieving an accuracy of **85%.**
- Created web app using **Flask**, HTML, CSS & JavaScript for user-friendly property input and accurate price predictions.
- Leveraged **NumPy, Pandas**, & **Matplotlib** to manipulate, visualise, and analyse data, improving **90%** of decisions.
- Stored and retrieved user notes using **Firestore**, achieving faster data access and retrieval compared to others.

TECHNICAL SKILLS

- **Languages:** Node.js, Python, JavaScript, Java, Typescript, SQL, C, C#, C++, Ruby, Solidity, Docker, Kubernetes
- **Frameworks:** React.js, Angular, MongoDB, PostgreSQL, Next.js, Express.js, Flask, Git/GitHub, Unix/Linux/Bash, GCP