

Kshitiz Neupane

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EDUCATION

University of Southern Mississippi

B.S. Computer Science & Mathematics GPA: 4.0 / 4.0

– Relevant Coursework: Probability & Statistics, Linear Algebra, Differential Equations, Discrete Mathematics, Data Structures, Operating Systems

Hattiesburg, MS

Expected May 2028

EXPERIENCE

Software Developer Intern – Butwal Technologies

Feb 2024 – Aug 2024

Software Engineering

Butwal, Nepal

- Developed reusable automated web/API test workflows and technical test reports, reducing repetitive manual validation across iterative releases.
- Contributed to REST API integration, debugging, validation, Git-based collaboration, and CI/CD-oriented development in Agile workflows.
- Produced implementation documentation, communicated progress during team cycles, and delivered assigned engineering work against project requirements and deadlines.

PROJECTS

AcademiQ – Full-Stack Discussion Platform | Go, PostgreSQL, React, TypeScript, Docker

GitHub

- Implemented PostgreSQL migrations and persistent user-storage architecture for a Go REST backend, replacing transient account handling with database-backed persistence.
- Built sanitized user-store operations and integrated JWT authentication/authorization compatibility with the redesigned persistence layer.
- Collaborated on a Dockerized React/TypeScript + Go system supporting role-based access, discussions, administrative controls, and security-focused backend design.

ManageYourHome – Expense Sharing Platform | React, TypeScript, Django REST Framework, JWT

GitHub

- Engineered a full-stack household expense platform with collaborative lists, item assignment, taxes, subtotals, and automatic per-user share calculations.
- Implemented JWT access/refresh flows, rotation and blacklisting, protected DRF endpoints, Axios auth interceptors, and configurable CORS policies.
- Built reusable frontend/backend components for list management, detailed expense breakdowns, authentication, loading states, and error handling.

PrepAI – AI Learning Platform | React, Java, Spring Boot, OpenAI

GitHub

- Co-developed an AI learning application that transforms uploaded PDFs into quizzes, flashcards, and personalized study plans.
- Contributed to backend/AI integration for document processing and structured educational-content generation across React and Spring Boot components.
- Delivered an end-to-end prototype under hackathon constraints; the team placed **1st Runner-Up at the VOXO Hackathon**.

ADDITIONAL PROJECTS

TrustJS (payment security/MFA) | **WordBuddy.ai** (voice-processing API) | **Money Manager** | **TaskManager** | **Task CLI** | **C++ Reservation System**

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, Go, C++, SQL

Backend & Frontend: Django/DRF, FastAPI, Node.js/Express, Spring Boot, React, Vite, Tailwind CSS, REST APIs, JWT

Data & Infrastructure: PostgreSQL, SQLite, MySQL, Docker, Git/GitHub, CI/CD, pytest, Playwright, Linux