

Nandan Hegde

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Visa Status: US Citizen

Objective

A highly motivated and detail-oriented graduate with hands-on experience in backend development, API design, and data management. Adept at utilizing programming languages such as Python, Java, and C++ to solve complex technical problems. Skilled in web development, FastAPI, JWT authentication, SQL, and integrating third-party services. Seeking a challenging role in software development or backend engineering to leverage technical skills and contribute to building innovative solutions.

Experience

Intern

Samvits

May 2024 - December 2024

- Collaborated with the frontend UI team to enhance the Samvits platform, contributing to improved user interface and experience.
- Developed a comprehensive application to monitor stocks, mutual funds, currencies, bonds, and commodities, aiding fund managers in portfolio construction and regular monitoring.
- Engineered a machine learning model for equity and commodity selection, purchasing, and profit booking, which resulted in a 2x increase in shareholder profits.
- Worked extensively with React, SpringBoot, Python, TensorFlow

Education

National Institute of Technology Karnataka, Surathkal

2020 - 2024

Bachelor of Technology - Electronics and Communication Engineering

Skills

Programming Languages: Python, JavaScript, Java, SQL, TypeScript, C++
Technologies: Django, NumPy, TensorFlow, PyTorch, React, Redux, Node.js
Tools: Git, Docker, AWS

Certifications

AWS Certified Cloud Practitioner

Amazon Web Services

AWS Certified Solutions Architect – Associate

Amazon Web Services

Projects

Project 1: Lux-Resort – Hotel Management Web App

lux-resort.netlify.app

- Developed and deployed a full-stack hotel management dashboard for the **Lux-Resort** brand, using React and Supabase, branded as **Wild Oasis**.
- Implemented user authentication and role-based access control with Supabase to ensure secure staff-only access.
- Built responsive UI components with Styled Components and added dark mode support for better user experience.
- Utilized React Query for efficient data fetching, caching, and real-time updates across bookings and cabin management.
- Integrated data visualization using Recharts to display booking trends and revenue statistics.
- Deployed the application on Netlify using Vite for optimized performance and fast load times.

Demo Login:

- Email: demouser123654@gmail.com
- Password: demouser

Project 2: FastAPI REST API Development

- Developed a REST API using FastAPI for user authentication, CRUD operations, and database integration.
- Implemented JWT authentication to secure API endpoints and manage user sessions.
- Integrated SQLite/PostgreSQL using SQLAlchemy for data management.
- Designed API routes for user sign-up, login, and profile management using Pydantic models.
- Deployed the API on Heroku for live production use.

Project 3: Music Genre Classification using MFCC and Neural Networks

- Developed a music genre classification system by extracting Mel-Frequency Cepstral Coefficients (MFCC) from audio samples.
- Trained a Neural Network model to distinguish between different musical genres based on acoustic features.
- Leveraged deep learning techniques to process and analyze audio data for high-accuracy classification.