Nishita Kadian

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EXPERIENCE

Software Engineer   **Dec, 2023 - Present**
Stealth Startup   Mumbai(Remote), India

- Designed API contracts for frontend integration with backend RESTful APIs.
- Implemented interfaces for registration, login, and password management, taking UX into account.
- Worked with creating a user database and authentication layer.
- Developed APIs for user operations and implemented JWT authentication for enhanced security.
- Developed backend for WhatsApp messaging, enabling real-time message listening and notifications.
- Integrated AWS Secret Manager for effective key and variable management.
- Worked with Docker to containerize the backend and hosted on AWS.

Embedded System Engineer   **Jan, 2023 - Jul, 2023**
Addverb Technologies   Noida, India

- Worked towards porting Intel Up2 to TDA4VM processor for AGV (autonomous guided vehicles).
- This involved, working on writing custom Kernel builds based on Linux, developing in-house device drivers and using ROS to manage AGV's software stack

SKILLS

C++ • Python • Java • C • SQL • HTML/CSS • Javascript • Docker • AWS • Flask • Django
FastAPI • SpringBoot • Git • PostgreSQL • Linux • Data Structures • Algorithms • Database Systems
Operating Systems • Computer Networks

PROJECTS

Obsidian Community Plugin [Open Source Contribution] ([Github repo](#))
- Developed a community plugin for Obsidian to sync notes to Google Drive. It keeps track of your notes hierarchy and maintains the same so you can sync notes across devices using Obsidian.
- The plugin is developed in TypeScript as Obsidian supports TypeScript for their community plugins.
- Used Google Drive API v3 to implement CRUD operations.

DeepLearning based High Resolution FPM ([Report](#))
(Capstone Project, Dr. Vishal Srivastava)
- Fourier Ptychographic Microscopy (FPM) recombines multiple images to achieve the end goal of a high resolution image with a wider view.
- Constructed a UNET Architecture based deep learning network and can be used to get high resolution samples of Malaria samples.
- Implementation was done in MATLAB.

Fullstack project using Django ([Github repo](#))
- Developed a Leetcode like coding playground.

- Used Django (Python) for backend. It supports user authentication, session management, fancy code editor and tracks submissions.
- Dockerized the application and hosted on AWS.

MovieExplorer ([Github repo](#))
- Cleaned and processed movies data from Grouplens dataset.
- Persisted the cleaned data in PostgreSQL database.
- RESTful APIs are written in Flask (Python) which are tested using Postman. It supports user login to mark watched movies.
- Frontend written using HTML/CSS/JS as Flask templates.

EDUCATION

B.Tech. in Electronics Instrumentation and Control
July 2023
Thapar Institute of Engineering and Technology (TIET)   Patiala, India
CGPA: 9.2

ACHIEVEMENTS AND CERTIFICATES

- **700+ problems** solved on **[LeetCode](#)** with solutions hosted on **[Github](#)**.
- **Runners-Up** at **Digital Health Hackathon 2.0**, January 2023, organized by **Dr. Reddy's Laboratories Ltd.**
- Earned maximum star gold badges in **Problem Solving**, **C++** and **SQL** on **[Hackerrank](#)**.
- Certified in **[Problem Solving (Basic)](#)** and **[Problem Solving (Intermediate)](#)** by **Hackerrank**.
- Awarded **TIET Merit Scholarship twice** for Year 2020-21, 2021-22 for outstanding performance in academic year with CGPA of 9.39 and 9.22 respectively.

OTHER ACHIEVEMENTS

- Completed **Harvard's CS50**, a course offered by Harvard online.
- Completed **[Java Course- Mastering the Fundamentals](#)**, a course offered by Scaler Academy.
- Completed **[Spring Boot For Beginners](#)**, a course offered by Amigoscode.
- Participation in various hackathons:
  - [Innovaccer's HackerCamp 22 powered by Microsoft](#)
  - [Uber HackTag 2.0 by Uber](#)
  - [Flipkart Grid 4.0 by Flipkart](#)
  - [Tata Imagination Challenge 2021 by Tata Sons](#)
  - [Jumpstart powered by Publicis Sapient](#)
  - [House of Code powered by Lowe's Companies Inc.](#)
- Received **Gold medal** twice in **Taekwondo, Chandigarh State Open**.
- **Gold and Bronze medal** in **Taekwondo, State Schools Tournament** by Education Department, Chandigarh Administration.