Nishita Kadian

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EDUCATION

TIET | THAPAR UNIVERSITY
CGPA: 9.22
BTech in Electronics Instrumentation and Control
July 2023 | Patiala, India

SKILLS

LANGUAGES

C++ • Python • Java • C
SQL • HTML/CSS • Javascript

SOFTWARE

Flask • Django • SpringBoot
Git • Linux • MATLAB
Autodesk Autocad
Autodesk Tinkercad

FAMILIAR

Data Structures • Algorithms
Database Systems • Operating System
Computer Networks

LINKS

Website: nishita-kadian.github.io
Github: nishita-kadian
LinkedIn: nishita-kadian-9542b7202
Hackerrank: nkadian_be19
LeetCode: NK04

OTHER ACHIEVEMENTS

• Awarded **TIET Merit Scholarship twice** for Years 2020-21, 2021-22 for outstanding performance in academic year with CGPA of 9.39 and 9.22 respectively.

• **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.

• Received **Gold medal** twice in **Taekwondo, Chandigarh State Open**.

• **Gold and Bronze medal** in **Taekwondo, State Schools Tournament** by Education Department, Chandigarh Administration

EXPERIENCE

- **Addverb Technologies**
  (Embedded Systems Engineer Intern) *(Jan, 2023 - Jul, 2023)*
  Working towards porting Intel Up^2 to TDA4VM processor for AGV (autonomous guided vehicles).
  This involves, working on writing custom Kernel builds based on Linux, developing in-house device drivers and using ROS to manage AGV's software stack.

ACHIEVEMENTS AND CERTIFICATES

- **700+ problems solved** on **LeetCode** with solutions hosted on **Github**.
- Earned maximum star gold badges in **Problem Solving**, **C++** and **SQL** on **Hackerrank**.
- **Digital Health Hackathon 2.0**, January 2023, Organized by Dr. Reddy's Laboratories Ltd., **First Runner Up**.
- Certificate of participation in following 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.

PROJECTS

- **Movie Explorer (Github repo)**
  (Exploratory Project) *(2022-2022)*
  Cleaned and processed movies data from **Grouplens dataset** and persisted in SQLite database. **RESTful APIs** are written in **Flask (Python)** tested using **Postman**, with **SQLite** as Database. Supports user login to mark watched movies.Frontend is written using **HTML/CSS/JS** as Flask templates.
- **Deep Learning based High Resolution FPM (Report)**
  (Capstone Project, Dr. Vishal Shrivastava) *(2021-2022)*
  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)**
  (Exploratory Project) *(2024-2024)*
  Learnt Django from scratch to create a Leetcode like playground. Supports user authentication, session management, tracks submissions. Dockerized the application and hosted on AWS.
- **Micro-controller based LPG Detection System (Report)**
  (UTA014-Engineering Design-2, Dr. Harpreet Vohra) *(2020-2020)*
  Used Arduino Uno with MQ-6 sensor to detect gas concentrations (200-10000ppm). Minimized cost through testing various sensors, buzzers, and displays.
- **Micro-controller based Ultrasonic blind walking stick (Report)**
  (UTA014: Engineering Design-2, Dr. Sanjeev Rao) *(2020-2021)*
  Used Arduino Uno with Ultrasonic Distance Sensor HC-SR04 and Piezo buzzer to detect obstructions within 2cm to 80cm and $15°$ V-shaped angle around y-axis. Tested in Autodesk Tinkercad. **[Demo]**