Vikranth Udandarao

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Education

2022–present	**IIIT Delhi, India** BTech, Computer Science and Artificial Intelligence
2022	**ISWK, Muscat, Oman** Class XII, AISSCE CBSE Percentage – 92.6%
2020	**ISWK, Muscat, Oman** Class X, AISSE CBSE Percentage – 89.4%

Experience

Sep'23–present — **Student Council IIITD, Delhi, India**
- Represented the B.Tech CSAI 2022 batch
- Managed the portfolios of 6 clubs of different domains and collectively overviewed the finances and events of all the clubs at IIITD

Oct'20 – Oct'20 — **SUPROS, Muscat, Oman**
Advisors: Mr. Ankit Soni
- Interned under Mr. Ankit Soni, Investment Professional (with experience working at Moody's Analytics Knowledge Services and Nomura), from 17 October 2020 to 31 October 2020
- Project Goal was to work on Britannia's case study and make presentations for the firm

Skills

Languages	Python, C/C++, Java, HTML/CSS, JavaScript, Prolog
Libraries	NumPy, Pandas, Matplotlib, NLTK, OpenCV, Sympy, Streamlit
Technologies	LangChain, Git, Google Colab, Linux, Bash Script, Postman, JavaFX, JUnit, LaTeX, ROS
Soft Skills	Leadership, Problem Solving, Critical Thinking, Communication, Outreach, Public Relations

Projects

1. **Taste Of API**
   Group Project by a team of 4
   - Taste of API is a user-centric app and website designed to offer a delightful culinary experience, providing users with the ability to explore various cuisines and plan their meals based on specified calorie requirements.
   Tools & Technologies Used: Python, Flutter, HTML/CSS, JavaScript, LangChain, Streamlit, RecipeDB API, FlavorDB API, Postman, Git
   [Github]

2. **Memory Management System**
   Course Project for Operating Systems
   - MeMS is a custom memory management system that allows for efficient allocation and de-allocation of memory using a doubly linked list data structure. It also provides the capability to map virtual memory to physical memory.
   Tools & Technologies Used: C, System calls, Git
   [Github]

3. **Custom Linux Shell**
   Course Project for Operating Systems
   - A custom Linux shell using custom commands: word, dir and date along with command-line options. It provides functionalities such as word counting, directory creation, and retrieving file information.
   Tools & Technologies Used: C, Makefile, Git
   [GitHub]

4. **Zoo Management System**

   Course Project for Advanced Programming
   - The Zoo Management System is a Java-based OOPS application designed to manage zoos, animals, and attractions in a zoo. It allows administrators and visitors to use this system for visiting the zoo without any hassle.
   Tools & Technologies Used: Java, Git
   [GitHub]

5. **Custom ISA Assembler**

   Course Project for Computer Organization
   - The Custom ISA Assembler is an assembler for a custom Instruction Set Architecture (ISA) implemented in Python. The assembler can decode and process a set of instructions, check for errors, and generate binary code for a CPU with limited instruction formats.
   Tools & Technologies Used: Python, Git
   [GitHub]

6. **Bash Script Calculator**

   - Bash Script Calculator is a simple bash script that acts as a math calculator. It reads input from a text file, performs arithmetic operations, and saves the results in an output file.
   Tools & Technologies Used: Bash Script, Makefile, Git
   [GitHub]

Honors & Awards

- 100% Scholarship Holder for B.Tech - CSAI program in IIITD
- Student Council Batch Representative for AY 2023-24 for CSAI
- Trinity College London, 8th Grade Keyboard
- English Subject School Topper, AISSCE 12th Grade

Coursework

- Introduction to Programming (Python)
- Data Structures and Algorithms (C)
- Advanced Programming (OOPS in Java)
- Operating Systems
- Computer Organization
- Introduction to Intelligent Systems
- Linear Algebra
- Probability and Statistics
- Multivariate Calculus
- Discrete Structures
- Money and Banking

Societies & Co-Curriculars

- Student Council, '23-'24
- Core Member, Clubs Committee, '23-'24
- Student Senate Outreach Team, '23-'24
- Nexus Knights Esports Coordinator, Sports Council, '23
- Member, International Relations Council IIITD, '23-'24
- Member, OWASP IIITD, '23-'24
- Core Member, Toastmasters Club, '16

- Pitch Cafe Event Organiser, E-Summit'23
- GameJam Event Organiser, Esya'23
- Organising Team, Odyssey'23
- Organising Team, Astra'23
- Volunteer, RIISE'23
- Community Volunteer, Gandipet Welfare Society, '23
- Community Volunteer, Charity for Cancer Patient, '16-'20