Hanani Bathina

HYD/MAA| GitHub | 8897351040 | jaihanani8@gmail.com | Website: https://hanani8.github.io/

EDUCATION

Indian Institute of Technology, Madras   **Chennai, TN**
BS in Programming and Data Science (GPA: 9.5)
- Relevant Courses: Deep Learning, Machine Learning Techniques, Database Management Systems, Programming concepts using Java, Data Structures and Algorithms, Modern Application Development

Fabacademy, Super Fablab Kochi   **MIT Media Lab**
Diploma in Digital Fabrication by MIT Media Lab
- The Fab Academy is a fast-paced, hands-on learning experience where students learn rapid prototyping by planning and executing a new project each week, resulting in a personal portfolio of technical skills.
- Skills acquired: CNC, CAD, Embedded Programming, etc…
- Portfolio Website: Website

School of Accelerated Learning, Hyderabad   **Hyderabad, TS**
Bootcamp in Full-Stack Development
- A rigorous 20-week product engineering program that equips you to run complex websites, make applications functional, build scalable systems

WORK EXPERIENCE

IIT Madras   **Chennai, TN**
Teaching Assistant for Data Structures and Algorithms course   *May 2023 – Sep 2023*
- I have led live sessions for a student cohort, covering sorting algorithms (insertion, selection, mergesort, quicksort), graph algorithms (BFS, DFS, Topological Sort), shortest-path finding algorithms (Dijkstra, Bellman-Ford, Floyd-Warshall), advanced data structures (Heap, Priority Queue, Union-Find, Binary Search Tree, AVL Tree), string algorithms (Boyer-Moore, Robin-Karp, Knuth-Morris-Pratt), and programming paradigms (Greedy, Divide-Conquer, Dynamic Programming).

Tabula Rasa   **Hyderabad, TS**
Application Developer   *May 2022 – May 2023*
- Analyzed existing databases to identify loss-making products, developed a heuristic for cost-effective labor management, and conducted analysis of the feasibility of implementing an in-house delivery service.
- Collaborated with senior management to redesign the database, ensuring adherence to Boyce-Codd Normal Forms. Designed Wireframes compliant with W3C Web Accessibility guidelines. Acquired proficiency in PHP and Svelte in a few months, allowing me to successfully implement a customer-facing application for booking restaurant tables.

MURL Labs, IIT Hyderabad   **Hyderabad, TS**
Intern   *Jan 2022 – May 2022*
- Developed a custom Python interface to interact seamlessly with a 5-axis robot arm.
- Assisted Ph.D. scholars by performing CNC programming to facilitate rodent testing for innovative cancer treatment research.
- Designed and fabricated various lab tools, such as a Rodent Holder and Vacuum Chamber, among others.
- Was the sole point of contact between MURL Labs, and T-Works(Rapid Prototyping Facility), and ensured timely and smooth delivery of fabrications.

UpWork   **Online**
Freelancer   *Jan 2021 – Dec 2021*
- Created a Psychiatry Management System for a Midwestern US orphanage. Was paid more than previously agreed upon for exemplary work.
- Created a grocery delivery and pickup service for an entrepreneur based in San Francisco, using Google Apps Script, Google Sheets, and the DoorDash API.
- Various tasks involving Bash scripting and automation.

MoxieDB   **Hyderabad, TS**
Lead Software Engineer   *Mar 2020 – Nov 2020*
- Developed a document management system for pharmaceutical companies to safely exchange compliance documents, purchase orders, and other sensitive documents using Node.js, Angular, MongoDB, AWS S3, AWS EC2, AWS Cognito.

LEADERSHIP EXPERIENCE

Himalayan Mountaineering Institute (HMI)   **Darjeeling, WB**
Basic Mountaineering Certification   *Sep 2021– Oct 2021*

- Completed a 30-day certification course under the Ministry of Defence to qualify as a future mountaineer. The course included a challenging 23-day trek in the Sikkim Himalayas, as well as rock climbing, glacier training in Rathong, map reading, search and rescue techniques, avalanche survival, river-crossing skills, and mountain camping and cooking. Successfully completed the course and received a recommendation for advanced mountaineering training.

SKILLS & INTERESTS

Skills: Node.Js | JS Frameworks (Vue3, Angular, Svelte) | Programming Languages (Java, Rust, PHP, Python3) | Databases & Storage (PostgreSQL, SQLite, MongoDB, S3, DynamoDB) | Python & DL & ML (SkLearn, Numpy, Matplotlib, Pytorch, Scipy, Pandas, Flask) | Linux Programming (Bash, AWK, SED) | Cloud Computing (AWS, GCP) | Git | Languages (English, Hindi, Telugu)

Interests: Personal programming projects, Mathematical thinking, Motorcycling, Wrestling.