Srujana Vanka

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Education

International Institute of Information Technology, Hyderabad

Bachelor of Technology in Electronics and Communication Engineering

Experience

Head Digital Works

July 2024 - Present

Software Development Engineer

Huderabad

2020 - 2024

• Developing high-performance microservices for loyalty programs focused on customer retention using Java Spring Boot, reducing latency by 20% and improving system robustness.

SmallJoys

May 2023 - June 2024

Software Engineer Intern | Python, Javascript, Cypress

Huderabad

• CI/CD & Automated Testing: Accelerated release cycles by 30% by implementing end-to-end test automation with Cypress, reducing manual QA efforts by 70%; Fixed 20+ critical bugs to improve system uptime and user experience.

Microsoft

April 2022 - May 2022

Microsoft Engage Mentee | Python, MySQL, HTML/CSS

Remote

- Participated in a Microsoft mentorship program securing a spot in the top 1 percentile of applicants nationwide.
- Designed a facial recognition attendance system with 95% accuracy using OpenCV. Developed Tkinter-based GUI and MySQL backend for seamless data management.

Projects

Web Apps | Python, JavaScript, React, Docker

- Speech Transcription Verification: Built a full-stack application for speech-to-text transcription editing with audio playback and virtual keyboard support. Implemented RESTful APIs and containerized services for efficient deployment.
- Gene Sequence Prediction: Developed a secure prediction tool for COVID-19 genomic sequences with JWT authentication, sequence visualization, alignment score computation, and real-time location mapping. Deployed the application using Docker Compose.

Image Processing and ML | Python, CV

- Face Recognition Using CNNs: Implemented specialized CNN models for facial recognition considering orientation and demographic variance, achieving over 97% accuracy across diverse datasets.
- Empty Parking Space Detector: Implemented real-time vehicle detection and computer vision pipelines for parking slot detection with over 99% accuracy using frame differencing and contour analysis.

Dijkstra-Based Smart Routing System | C

• Implemented and modified Dijkstra's algorithm to navigate the shortest path on a customized map, dynamic edge weights, and adaptive routing to accommodate unpredictable events, employing Data Structures and algorithms for implementation.

Game Dev | Python, Javascript, HTML/CSS

• CodeCraftedArcade: Developed 10+ interactive arcade games covering genres like shooting, racing, and memory games in both web and terminal environments.

CLI Projects | C, Linux, Make

• C-shell: Implemented an interactive shell program in C based on UNIX handling process management, directory navigation, I/O redirection, piping, and signal handling with support for semicolon-separated command lists.

Technical Skills

Java, Python, JavaScript, C++, C, R, SQL, HTML/CSS Languages

Frameworks & Tools React, NodeJS, Spring Boot, Flask, Cypress, Docker, PyTorch, TensorFlow, Git, AWS, Grafana,

Linux, Bash

Core Competencies Data Structures & Algorithms, System Design, RESTful API Development, Microservices Architecture,

CI/CD Pipelines, Test Automation, Unit Testing, OOP, Machine Learning, AI Applications

Achievements & POR

- 98.2% in 2020 XII Board Examinations
- 99.56 All India JEE Mains Percentile
- Open Source Contributor, GSSOC'23: Contributed to 6 repositories, merged 18 PRs, ranked 106th/13,000+
- Teaching Assistant for Real Analysis; Science 1 Courses
- Joint Cultural Secretary @ IIIT-H
- Coordinator @ The Dance Crew IIIT-H
- Editor @ Ping! Student Media body
- Member @ NSS IIIT-H
- Ranked top 1% nationwide as Microsoft Engage Mentee

Extra-Curricular Activities

2015 - Present Kuchipudi Dancer

Learning under the renowned guru Smt. Deepika Reddy, I have performed at prestigious venues and national events such as the Maha Kumbh, G20 Ministers Meeting, CM Cup, Konark, and Khajuraho dance festivals to name a few.