

Rakesh Bhagavan Vajrapu

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EDUCATION

Vignan's Institute of Information Technology

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE

CGPA: 9.2/10.0 | Nov'22 - Apr'26

Indian Institute of Technology, Madras

BACHELOR OF SCIENCE IN PROGRAMMING AND DATA SCIENCE

| June'23 - April'27

SKILLS

Programming Languages: Python, Java, C, C++, JavaScript, SQL

Web Development: HTML, CSS, JavaScript, React JS, Bootstrap, Flask, REST APIs

Tools & Platforms: Git, GitHub, Microsoft Azure, MySQL, Linux

Core CS Concepts: Data Structures, Object-Oriented Programming (OOP), Computer Networks, Databases, Operating Systems

Other Skills: Machine Learning, Agile & Scrum, SDLC, Debugging, Problem-Solving, Collaboration, Communication, Time Management

WORK EXPERIENCE

INFOSYS SPRINGBOARD | SOFTWARE ENGINEERING INTERN

Python, AI/ML, Azure | May'24 - July'24

Project Title: Automating Bank Check Extraction from Scanned PDF

- Developed a **Python**-based software for automated check extraction using **Tesseract OCR** and **Microsoft TrOCR**.
- Automated validation and data extraction processes to reduce manual errors and improve system reliability.
- Deployed and monitored application performance on Azure ensuring availability and scalability.
- Collaborated in an **Agile** team to design, develop, test, and deploy software on **Azure**, covering all phases of the SDLC.

CODE PEAK | OPEN-SOURCE CONTRIBUTOR

Python, JavaScript, ReactJS | Dec'23 - Jan'24

- Led the creating and merging of 20 Pull Requests, resolving 15+ issues in open-source projects during the program.
- Enhanced proficiency in **Git** version control and **GitHub** workflows through active Open-Source participation.
- Ranked **15th** out of **300+** contributors, showcasing dedication to open source and outstanding software development.

PROJECTS

SHOPSMART - REACT E-COMMERCE [↗](#)

REACT JS, REDUX, JAVASCRIPT, BOOTSTRAP, FAKE STORE API

- Built a responsive **shopping platform** allowing users to explore products, manage carts, and simulate purchases.
- Integrated **Redux** for seamless state management and dynamic cart updates.
- Utilized **Fake Store API** to fetch real-time product data with effortless backend connectivity.

GESTURE BASED VOLUME CONTROLLER [↗](#)

PYTHON, OPENCV, MEDIAPIPE, NUMPY

- Implemented real-time hand gesture recognition for intuitive volume control using **Python** and **OpenCV**.
- Leveraged machine learning with **MediaPipe** to achieve accurate hand landmark detection.
- Designed a real-time system ensuring low-latency gesture recognition with robustness against environmental noise.

ACHIEVEMENTS

- Awarded the **AWS AI/ML Scholarship**, sponsored by **AWS**, from a competitive pool of over 50,000+ applicants.
- Led a team of 4 to achieve **2nd place** in the **Worthy Hack Hackathon**, competing against 170+ teams.
- Secured the **15th** position out of **300+** contributors in a prominent open-source project, showcasing unwavering dedication and passion for collaborative development.

COURSES AND CERTIFICATIONS

PYTHON CERTIFICATION BY INFOSYS SPRINGBOARD [↗](#)

MICROSOFT AZURE AI CERTIFICATION [↗](#)

META FULL-STACK DEVELOPER PROFESSIONAL CERTIFICATION [↗](#)

UDACITY AI PROGRAMMING WITH PYTHON [↗](#)