

ARVIN ARUN DCOSTA

Full-Stack Developer | Microsoft Student Ambassador

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EDUCATION

Vellore Institute of Technology – Andhra Pradesh B.Tech in Computer Science (Minor: IoT) CGPA: 9.77/10	Sep 2023 – May 2027
K. J. Somaiya College of Science and Commerce Class XII (SYJC): 92.83% Class XI (FYJC): 95.50%	Jun 2021 – May 2023
St. John The Baptist High School Class X (SSC): 94.20%	Jun 2020 – May 2021

EXPERIENCE

Microsoft Student Ambassador - Microsoft - Organized 15+ technical events/workshops (Azure, Git, ML), reaching 100–300 participants each - Promoted to Beta-level for impact; collaborated with global student leaders on scalable events	Apr 2024 – Jan 2026
Web Development Intern - Corizo - Built a MERN-stack e-commerce site in a 4-member remote team - Implemented user auth, cart logic, and product listings, improving reliability with error handling	Aug 2024 – Sep 2024
Machine Learning Intern - YBI Foundation Developed and documented 7+ ML models (classification & regression) achieving up to 99.8% accuracy	Feb 2024 – Mar 2024
Python Intern - UniConverge Technologies Created a CLI-based file organizer, automating directory sorting and reducing manual effort by 90%	Jan 2024 – Feb 2024

PROJECTS

SynChat – Real-Time Chat Application - Building a real-time chat app using Socket.IO, React (Vite), Express, and MongoDB/Mongoose - Implemented secure authentication with JWT in HTTP-only cookies, bcrypt hashing, and middleware for route protection	Present
SafetyWatch – Crime Reporting Platform - Full-stack platform with real-time dashboards, analytics, role-based dashboards, and Google OAuth - Integrated Prisma + MySQL backend, OCR-based evidence extraction, and SSR/SSG via Next.js - Achieved sub-1.5s load times	May 2025

RESEARCH

Co-Author – Scientific Reports (Nature Portfolio) - Used OpenCV-based tools for video preprocessing, face detection, and filtered video generation - Implemented multi-camera surveillance and violence detection modules across 3-4 feeds - Contributed to a system achieving 94.8% multi-camera accuracy, 87.3% rare anomaly recall, and 105 FPS processing	Jul 2025
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LEADERSHIP & ACHIEVEMENTS

- Co-Director, Microsoft Student Chapter VIT-AP** – Directed 20+ tech events & hackathons (1,000+ registrations)
- Academic Excellence** – Consistently ranked among the **Top 3** in B.Tech CSE, Class XII, and Class X
- Open-Source Contributions** – Merged 3 PRs into open-source projects; growing contributions in web & ML repos

TECHNICAL SKILLS

Languages: Python, C/C++, Java, JavaScript, TypeScript, SQL, HTML/CSS

Web & Backend: React, Next.js, Node.js, Express.js, Tailwind CSS, Prisma, REST APIs, MySQL, MongoDB

ML & Tools: OpenCV, Scikit-learn, Pandas, NumPy, Matplotlib

Cloud & DevOps: Azure, Firebase, Git/GitHub, Postman