JOSHUA M VARUGHESE

Kerala, India ۱ Ph: +91 8075019867 ۱ joshuamvarughese5284@gmail.com ۱ www.linkedin.com/in/joshuamv52

EDUCATION

VIT BHOPAL UNIVERSITY — Bhopal, IND

Bachelor of Engineering — Expected May 2026

Computer Science and Engineering with Specialization(Cybersecurity and Digital Forensics)

Cumulative CGPA: 8.06/10

Relevant Coursework: Data Analysis, Software Engineering; Operating Systems; Algorithms; Data Structures, ML.

CITADEL RESIDENTIAL SCHOOL (Class XII) — Pathanamthitta,IND

Maths,Physics,Chemistry | Percentage: 74.6% — Jul 2020 - Mar 2022

WORK EXPERIENCE

INDIA SPACE LAB (WINTER INTERNSHIP) — Kerala, IND

Space Entrepreneur Intern — Dec 2024

- Trained in advanced drone technology and its applications in aerospace.
- Studied CanSat and CubeSat technology for satellite miniaturization and deployment.
- Developed an AI-driven drone project for wildlife monitoring and conservation.
- Gained insights into space tech innovations through hands-on research and industry sessions.

PROJECTS

COVERLESS IMAGE STEGNOGRAPHY SOFTWARE — May 2023

- **Developed a steganography system** that embeds plaintext into pre-annotated images.
- **Achieved an average PSNR of 95.6**, ensuring high-quality image preservation for large inputs.
- **Enhanced data security** by eliminating direct modifications to carrier images..

CYPICS – CRIME REPORTING AND EMERGENCY ASSISTANCE APPLICATION — May 2024

- **Developed an Android application** for real-time crime reporting and emergency assistance.
- **Integrated emergency services** like ambulance and police contacts for quick assistance.
- **Enhanced public safety** by providing a user-friendly platform for reporting incidents.
- **Implemented secure data handling** to ensure confidentiality and reliability of reports.

UNITY SERVE – WEBSITE AS NGO PORTAL — Dec 2024 - Present

- **Developed a web platform** integrating microservices for social welfare, including food donation and emergency contacts.
- **Implemented organ donor card pledging** to facilitate seamless registration and awareness.
- **Enabled volunteer registration system** to connect individuals with NGOs for impactful community service.

ACTIVITIES

EXPERIENTIAL LEARNING PROGRAM - VIT Bhopal University — Bangalore and Chennai

Sep 2024

- Gained hands-on experience at TVS working with **Industry 4.0** and **EV technologies.**
- Skilled in **IoT programming** using **Raspberry Pi PICO** and MicroPython.

CERTIFICATIONS

- Bits and Bytes in Computer Networking(Coursera)
- Foundation of Cyber Physical System(NPTEL)
- CINE-Guwahati Course on Artificial Intelligence and Data Science

ADDITIONAL

Technical Skills: Python, Java ,C++, Web Development, MySQL, Kali Linux, Metasploit, Burp Suite, Tensorflow, OpenCV, CNNs, CanSat & CubeSat Technology, Drone System Design & UAV Navigation, MATLAB.

Languages: Fluent in English, Malayalam, Hindi.

Achievements: Runner-up for Business Ideathon at AdVITya'24