

Rishabh Rathod

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Summary

Pre-final year B.Tech student at VIT Chennai, majoring in Electronics and Computer Engineering. Passionate about embedded systems, DevOps, and hardware-software integration. Demonstrated ability to build scalable systems with real-time performance and collaborate on research and DevOps pipelines.

Education

B.Tech in Electronics and Computer Engineering, VIT Chennai

2023 – 2027

Current CGPA: 8.89 / 10

Experience

Research Intern, CNVD, VIT Chennai

Jun 2024 – Aug 2024

- Simulated and optimized MOSFET device performance using TCAD tools.
- Analyzed electrical characteristics and explored alternative structural models.
- Supported research objectives in semiconductor device modeling and validation.

Projects

Complaint Management System – DevOps Pipeline Project

- Built a Java Spring Boot application for complaint tracking with REST APIs and H2 database.
- Developed CI/CD pipeline using Jenkins and Docker for containerized builds.
- Automated deployment using Ansible and monitored metrics with Graphite and Grafana.
- Ensured quality via unit testing (JUnit) and API validation (Postman).

AURA – Aquatic Unmanned Research Assistant

- Developed an underwater ROV with motor control and environmental sensors.
- Created a backend with WebSocket communication and a React-based UI for live control.
- Focused on real-time telemetry, modular architecture, and underwater performance.

Certifications & Virtual Simulations

IBM Career Education (IBM Developer Skills Network)

- DevOps Fundamentals, June 2025 [[View Certificate](#)]
- DevOps, Agile & Design Thinking, June 2025 [[View Certificate](#)]

Deloitte (via Forage)

- Cybersecurity Virtual Job Simulation, June 2025
- Data Analytics Virtual Job Simulation, June 2025

Technical Skills

Languages: C/C++, Java, Python, MicroPython

Web Development: JavaScript, React JS

Tools: Git, Linux, Jenkins, Docker, Ansible, Maven, JUnit, Postman, Graphite, Grafana

Domains: Embedded Systems, IoT, DevOps (CI/CD), PCB Design

Achievements

Gujarat Robofest 4.0 – Underwater Robotics (2024)

- Secured third place nationally for presenting the AURA ROV prototype.
- Recognized for functional design, real-time implementation, and collaboration.

Extracurricular

- Electronics Lead, Campus Robotics Special Team
- Member, AI Club – Participated in hands-on technical workshops and peer-led projects