

Roshal Dsouza

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EDUCATION

Visveshwaraya Technological University

Bachelor of Engineering, Computer Science CGPA : 9.0

Mysore road, Bangalore

Dec. 2021 – May 2025

EXPERIENCE

Software developer intern

March 2025 – June 2025

Toyota Kirolaskar Motor pvt. ltd.

Bidadi, Bangalore

- * Developed scalable **MEAN stack** (MongoDB, Express.js, Angular, Node.js) modules for internal web applications.
- * Built features for **real-time data management** and automated internal business processes.
- * Collaborated with cross-functional teams to design and deploy **production-ready web solutions**.
- * Improved system efficiency by streamlining data workflows and reducing manual operations.

Software Engineer Fellow

Jul. 2024 – Oct. 2024

Headstarter AI

Remote, New York, USA

- * Selected from a competitive applicant pool for an intensive **AI and software engineering fellowship**.
- * Developed and deployed **AI-powered applications**, working with mentors from industry.
- * Gained hands-on experience in **model training, fine-tuning, evaluation, and deployment**.

DevOps Engineer (Internship)

Sept 2024 – Feb 2025

Roman Technologies Pvt. Ltd.

Bangalore

- * Designed and implemented a **proactive monitoring dashboard** using **Prometheus and Grafana** to ensure **continuous availability** of applications and services.
- * Collected and visualized system and application metrics, enabling **early detection of failures and performance bottlenecks**.
- * Containerized applications using **Docker**, improving deployment consistency and environment parity.
- * Built and configured **CI/CD pipelines using Jenkins** to automate build, test, and deployment workflows.
- * Integrated **Git-based workflows** with Jenkins for continuous integration and controlled deployments.
- * Gained hands-on experience with **Kubernetes**, including pod management, deployments, and basic service orchestration.

PROJECTS

PDF Collaboration System | Python, Django, SQLite

July 2025 – Present

- * Developed a **full-stack PDF collaboration platform** enabling secure document sharing and role-based access control.
- * Implemented **real-time commenting and collaboration features** to improve team productivity.
- * Designed and integrated **RESTful APIs** for file handling, comments, and user permissions.
- * Ensured secure access using authentication and authorization mechanisms.

MERN Stack E-Commerce Platform | React.js, Node.js, Express.js, MongoDB, Material UI

Oct 2025

- * Built a **full-stack MERN application** featuring user authentication and responsive UI.
- * Developed backend APIs for **CRUD operations and data visualization**.
- * Implemented clean, modular frontend components for smooth navigation and usability.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript

Frameworks: React, Node.js, Express.js, Material-UI, FastAPI, Django

Concepts: Full-Stack Development, REST APIs, Authentication & Authorization, Agile Development

DevOps & Tools: Docker, Kubernetes, Jenkins, CI/CD, Git

ACHIEVEMENTS & CERTIFICATIONS

- * Participated in national-level **hackathons and technical expos**
- * Consistently recognized for **clean code, modular design, and problem-solving skills**
- * Agentic AI Systems – Udemy
- * Model Context Protocol (MCP) – Udemy