Ayush Karwa

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PROFILE SUMMARY

DevOps and Cloud enthusiast with a strong foundation in automation, infrastructure orchestration, and developer tooling. Passionate about building scalable systems, CI/CD pipelines, and AI-assisted developer tools using cutting-edge technologies.

EDUCATION

Thakur College Of Engineering and Technology   *Mumbai,Maharashtra*

Bachelors in Electronics and Computer Science   *2022*–2026

- Represented the department as a Core Member of the IETE Student Forum
- 2X college hackathon winner
- Top 10% in Academics

SKILLS

Programming: TypeScript, Javascript, Python, C++

Databases: MongoDB, PostgreSQL

DevOps & Cloud: Linux, AWS, Docker, Jenkins, Kubernetes, Terraform, Ansible

CI/CD & Automation: Jenkins, GitHub Actions, CI/CD Pipelines, Shell Scripting

Tools: Postman, Swagger, Nginx, AWS CLI, Docker Compose**,** Confluence, Jira

Version Control: Git, GitHub, Bitbucket

Development Methodologies: Agile, Scrum, SDLC

EXPERIENCE

Velsera (Part Time)   Remote, *Pune, Maharashtra*

DevOps Intern   *March 2025* – Present

- **Orchestrated the migration** of the PubMed Downloader tool from a shared Biofx server to a dedicated **64 GB RAM server**, enhancing system performance and isolating critical workloads
- **Provisioned and configured** the new environment with **MongoDB**, securely transferred the codebase, and authored a reusable **validation & rollback SOP**
- **Boosted tool execution speed by ~20%** and established a standardized migration framework now adopted for **3+ internal tools**

Product Support Intern   *Aug 2024* – Nov 2024

- **Integrated MatrixALM** and **Aha!** to streamline product requirement traceability and enhance cross-functional collaboration between product and engineering teams
- **Engineered automation scripts** to synchronize features and user stories across platforms, reducing manual effort by **~60%** and significantly improving backlog-to-QA alignment and sprint efficiency

PROJECTS

A Realtime Audio Video Meeting Platform [Collab Meet]   Aug 2024– Oct 2024

- **Architected and deployed** a scalable real-time video conferencing platform using **WebRTC**, **Socket.IO**, and **Node.js**, featuring screen sharing, media controls, and modular room-based architecture
- **Optimized performance** on **AWS EC2** with **MongoDB** for session tracking, achieving **<200ms latency** and reliably supporting **10+ concurrent users** per room with minimal packet loss

A RAG-based Dev Assistant [CommitLens]   Sept 2024 – Oct 2024

- Engineered an intelligent developer assistant using **Retrieval-Augmented Generation** (RAG) to deliver contextual insights from Git commit history and documentation
- **Integrated Gemini Embedding + Text Generation** APIs with Git repos to enable **natural language queries**, improving debugging efficiency and **onboarding speed by over 50%.**

ACHIEVEMENTS

- Served as **Head Coordinator of the IETE Student Forum**, representing the department and leading student-driven tech initiatives
- **Organized and managed multiple technical seminars** and workshops, covering topics like IoT, cloud computing, and Linux, enhancing technical exposure among peers
- **Conducted a Git & GitHub seminar** for first-year students, introducing version control fundamentals to over **50+ participants** and guiding them on collaborative project workflows
- **Collaborated with faculty and industry speakers** to host impactful sessions, bridging academic concepts with real-world applications

CERTIFICATIONS

- AWS Certified DevOps Engineer   In Progress (Expected: Aug 2025)
- AWS Educate Introduction to Cloud 101   Mar 2024
- AWS Educate Getting Started with Storage   Feb 2024
- Prompt Design in Vertex AI Skill Badge   Dec 2023