

Aditya Vikram Mahendru

Software Engineering Intern | AI & ML Enthusiast | Backend & DevOps Developer

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GitHub: github.com/DeathSurfing | Portfolio: adityavikram.dev

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Experience

Software Engineering Intern

Jan 2025 – Jun 2025

Woxsen AI Research Center

Hyderabad, India

- Accelerated ERP deployment speed by 100% (from 40s to 20s) by containerizing 3 microservices using Docker with caching
- Architected backend for 6,000+ users via REST APIs for holidays, leaves, outing systems using Flask and PostgreSQL
- Implemented CI/CD with GitHub Actions for automated deployment and sharding support
- Delivered production ERP leave management system in collaboration with 6 team members

Technical Secretary

2023 – 2024

Woxsen Student Council

Hyderabad, India

- Led campus-wide digital transformation via 7 projects and 5 internal tools

Projects

Woxsen MUN Website

August 2025 – Ongoing

FastAPI, Next.js, Tailwind CSS, PostgreSQL, ShadCN UI

- Handled 300+ registrations with 100% uptime via scalable backend and UPI gateway integration
- Saved 21% in payment processing fees by switching to Cashfree
- Deployed platform for end-to-end event ops within INR 9,000 budget in under 2 months

Woxsen Student Council Website

May 2025 – September 2025

woxsenstudentcouncil.com

Next.js, Tailwind CSS, Google APIs

- Reduced hosting costs by 55% (INR 20,000 → INR 9,000) via in-house KVM migration and no-code dev fees
- Built platform for 600+ students with centralized payment system and responsive design
- Deployed 36 Google Forms to automate student org operations

CNN from Scratch in Rust

August 2024 – December 2025

github.com/DeathSurfing/CNN-From-Scratch

Rust

- Implemented forward/backward pass of CNN without external ML libraries
- Built custom layers (activation, pooling, conv) with low-level memory management
- Gained deep understanding of ML internals and system-level performance

Technical Skills

Languages: Python (CUDA & non-CUDA), JavaScript (Next.js, Tailwind CSS, React), Rust, HTML, CSS

Frameworks & Tools: FastAPI, Docker, CuPy, Pandas, Matplotlib, Tailwind CSS, ShadCN UI, Ollama

Systems: Linux, Git, PostgreSQL, Google APIs, GitHub Actions

Education

Woxsen University

Hyderabad, India

B.Tech in Computer Science and Engineering (AI & ML)

August 2023 – Ongoing