

# Aditya Vikram Mahendru

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

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## Experience

### Software Engineering Intern

Jan 2025 – Aug 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

Nov 2024 – March 2026

*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 225% (INR 40,000 → 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