ditya Vikram Mahendru

Software Engineering Intern —   I & ML Enthusiast — Backend & DevOps Developer

Hyderabad, India   —   B.Tech CSE (I & ML), 2028
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GitHub: github.com/DeathSurfing   —   Portfolio: adityavikram.dev
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Technical Skills

Languages: Python (CUD   & non-CUD), JavaScript (Next.js, Tailwind CSS, React), Rust, HTML, CSS
Frameworks & Tools: Fast PI, Docker, CuPy, Pandas, Matplotlib, Tailwind CSS, ShadCN UI, Ollama
Systems: Linux, Git, PostgreSQL, Google   PIs, GitHub   ctions

Experience

Software Engineering Intern   Jan 2025 – Jun 2025
Woxsen   I Research Center   Hyderabad, India

- ccelerated ERP deployment speed by 100% (from 40s to 20s) by containerizing 3 microservices using Docker with caching

- rchitected backend for 6,000+ users via REST   PIs for holidays, leaves, outing systems using Flask and PostgreSQL

- Implemented CI/CD with GitHub   ctions for automated deployment and sharding support

- Delivered production ERP leave management system in collaboration with 6 team members

Projects

Woxsen MUN Website   ugust 2025 – Ongoing
Fast PI, 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   PIs

- 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   ugust 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

Education

Woxsen University   Hyderabad, India
B.Tech in Computer Science and Engineering (I & ML)   ugust 2023 – Ongoing

CS Fundamentals

Strong foundation in Data Structures &   lgorithms, Object-Oriented Programming, and System Design
Coursework in Computer   rchitecture, Foundations of   I, and System Software Design

chievements & Leadership

Technical Secretary   2025–2026
Woxsen Student Council

- Led campus-wide digital transformation via 6 projects and 4 internal tools
- Eliminated vendor dependency by delivering student-built platforms

Udgham Hackathon Participant

- Built   I-powered   TS solo in ¡24h, including ML pipeline and backend logic

Certifications

- Quantum Computing For Everyone – Fractal   nalytics
- The   rduino Platform and C Programming – UC Irvine
- Object-Oriented Design – University of   lberta
- Interfacing with the   rduino – UC Irvine
- Programming for Everybody (Python) – University of Michigan
-   dvanced Functional Ceramics – Yonsei University