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.woxsenstudentcouncil.com —
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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 Student Council Website   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

Woxsen MUN Website   mun.woxsenstudentcouncil.com
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 University ERP System (In Development)
Flask, Docker, PostgreSQL, GitHub ctions

- utomated 75% of On-Duty approvals with Dean forum integration
- Migrated laundry management system to PostgreSQL with sharding readiness
- CI/CD + container-based monitoring system for future scaling

CNN from Scratch in Rust GitHub
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 (AI & ML) Expected Graduation: 2028

CS Fundamentals

Strong foundation in Data Structures & Algorithms, Object-Oriented Programming, and System Design
Coursework in Computer Architecture, Foundations of AI, and System Software Design

Achievements & 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 AI-powered ATS solo in ¡24h, including ML pipeline and backend logic

Certifications

- Quantum Computing For Everyone – Fractal Analytics
- The Arduino Platform and C Programming – UC Irvine
- Object-Oriented Design – University of Alberta
- Interfacing with the Arduino – UC Irvine
- Programming for Everybody (Python) – University of Michigan
- Advanced Functional Ceramics – Yonsei University