# AMAN ULLAH ANSARY

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## PROFESSIONAL SUMMARY

Recent **ECE** graduate, with strong foundation in core ECE concept and growing passion for **Software Development, Artificial Intelligence, DevOps**. Built and deployed multiple end-to-end projects integrating modern **web technologies with cloud automation tools**. Eager to apply **problem-solving skills** and a continuous learning mindset to contribute to a product-driven engineering team.

## CORE SKILLS

**Languages:** Python, Java, HTML, CSS, SQL | **DevOps**: Docker, Kubernetes, Jenkins, GitHub Action, Terraform, Ansible, Linux, Bash Shell Scripting, YAML, TCP/IP, Grafana, Prometheus | **Databases**: PostgreSQL, MongoDB | **Web & Servers**: RESTful APIs, Nginx, n8n – Workflow, API Integration (with n8n), Redis, Kafka | **Tools & Technologies**: ReactJs, NLP, AI, Salesforce CRM, Jira.
**Professional Skills**: Proficient communication, People management, Multi-tasking, Quick Adaptable.

## PROFESSIONAL EXPERIENCE

**Jadavpur University** — Kolkata, India
*VLSI Design Intern* — *June 2025 – Aug 2025*

Engineered and analyzed **CMOS**-based digital integrated circuits through schematic design, layout development, simulation, and physical verification, gaining hands-on exposure to semiconductor **fabrication** processes and the complete **VLSI design flow.**

- Completed a certified hands-on training program in **Microelectronics Technology and VLSI Design** covering **CMOS** fabrication, semiconductor device fundamentals, and digital **IC design flow**; achieved a B+ grade.
- Designed and simulated CMOS logic circuits and combinational/sequential digital blocks using **Cadence** Virtuoso, **Microwind/DSCH**, and Xilinx **Vivado**, including schematic capture, layout design, and functional simulation.
- Performed physical design verification including layout design, **Design Rule Checking**, and Layout Versus Schematic (**LVS**) checks.
- Studied semiconductor fabrication processes including oxidation, photolithography, diffusion, ion implantation, and metallization across the complete IC manufacturing flow. **Certificate**: Microelectronics Technology & VLSI Design

## PROJECTS

### AI-Powered Self-Healing CI/CD Pipeline with Kubernetes Monitoring

- B Built a **production-grade AI-powered DevOps** platform using **GitHub Actions, Docker, Kubernetes, Flask, Prometheus, Grafana, Slack, and GROQ Llama 3, automating CI/CD, AI** code review, AI log analysis, anomaly detection, and real-time observability; reduced deployment time from 30+ minutes to 3 minutes (90%) and troubleshooting time by **60%.**
- Engineered a resilient Kubernetes deployment with **liveness/readiness** probes, resource limits, **auto-recovery**, and monitoring, achieving **8–12 second** pod recovery, <60 second AI incident alerts, **P99 latency** tracking, automated Slack notifications, and 100% detection of security test cases during AI-powered PR reviews.

**GitHub:** github.com/Aman-Ullah-Ansary/ai-devops-pipeline

### CloudWarden — Kubernetes Cost Governance & FinOps Platform

- Built a full-stack AI-powered Kubernetes FinOps platform automating cost analysis through **OpenCost** - based data collection, ML-driven forecasting, and **2-sigma** statistical anomaly detection.
- Developed an LLM-powered cost assistant that generates actionable spending recommendations, presented via a **6**-page Streamlit dashboard backed by a FastAPI backend.
- Deployed using **11** infrastructure-as-code manifests (Kubernetes, Argo CD, Prometheus, Grafana) and a multi-stage GitHub Actions CI/CD pipeline covering testing, linting, security scanning, Docker builds, and GitOps deployment sync.

**GitHub:** github.com/Aman-Ullah-Ansary/CloudWarden

### AI-Assisted AWS Cost Optimization & FinOps Platform

- Built a 30-day **AWS cost forecasting** model achieving 8.2% MAPE (Mean Absolute Percentage Error) on a 30-day holdout validation set.
- Implemented z-score based anomaly detection achieving 100% precision and **75%** recall against known cost-spike scenarios.
- Processed and visualized 120 days of multi-service AWS billing data (**600** records) and designed a rule-based cost optimization engine estimating potential savings across **5** AWS services. **GitHub:** github.com/Aman-Ullah-Ansary/finOps-project

## EDUCATION

**Dr. B. C. Roy Engineering College, Durgapur** — Durgapur, India
*Bachelor of Technology in Electronics and Communication Engineering | CGPA: 6.7* — *June 2022 – June 2026*

## CERTIFICATIONS

- **EY Technology Risk** — View Certificate
- **Salesforce Agentblazer Champion 2026** — Salesforce Trailhead, 20+ badges earned — View Profile
- **AI Mastery & Programming in Python** — 30DaysCoding
- **Generative AI** — Infosys Springboard — View Certificate