ADITYA HEDE

https://www.linkedin.com/in/aditya-hede-1971211aa/| adithyahede7@gmail.com | 6025615580| Tempe, AZ

Summary

Software Engineer (M.S. Information Technology, Arizona State University – May 2025, GPA 3.78) with 1.5 years of experience building cloud-native and AI-integrated systems. Skilled in Python, Java, React, and AWS, with strong grounding in data structures, distributed systems, and machine learning fundamentals. Passionate about designing end-to-end, production-ready features and innovating with AI/ML technologies to improve global collaboration.

Work History

Assistant System Engineer

TCS, Hyderabad, India   *December 2021 – April 2023*

- Automated Python + SQL pipelines reduce runtime by 20% and improving data quality compliance.
- Implemented CI/CD + TDD, cutting production incidents 15% and strengthening feedback cycles.
- Supported 200+ enterprise clients through reliable backend workflows and real-time system dashboards.
- Collaborated with product managers and senior engineers in Agile sprints to optimize architecture and code quality.
- Integrated security and monitoring automation for distributed backend systems deployed on AWS.

Education

Master of Science, Information Technology – Arizona State University, Tempe, AZ (GPA: 3.78) — *May 2025*
Relevant Coursework: Machine Learning, NLP, Database Systems, Distributed Systems, Operating Systems

Bachelor of Engineering, Computer Science – VJIT, Hyderabad, India (GPA: 3.33) — *July 2021*

Projects

InboxBridge Backend – Node.js, PostgreSQL, Docker, Kubernetes, Redis

- Built microservices and APIs for enterprise message classification, reducing manual workload 30%.
- Designed data pipelines and containerized deployments with observability integrations.
- Delivered production-grade features in an Agile environment, emphasizing scalability and fault tolerance.

AI Water Usage Estimator – Python, Django, AWS (S3, Lambda, CloudFront, Route 53)

- Designed and deployed a serverless AI application estimating compute sustainability impact.
- Implemented REST APIs, automated testing, and CI/CD pipelines for secure, continuous delivery.
- Developed data-processing and analytics components for real-time reporting and monitoring.

Skills

- **Languages/Frameworks:** Python, Java, JavaScript (Node.js, React, TypeScript), Go, C++, C#, Django, scikit-learn, TensorFlow (basic)

- **Software Development & Architecture:** Software Development Life Cycle (SDLC), Agile Methodologies, Application Architecture, Design Patterns, Algorithms, Documentation, Business Analysis, Problem Solving, Troubleshooting, Coding Best Practices
- **Backend & Data Systems:** REST APIs, PostgreSQL, Redis, Kafka, Data Pipelines, Microservices, System Design Patterns
- **Cloud & Infrastructure:** AWS (S3, Lambda, CloudFront, Route 53), Docker, Kubernetes, Terraform, CI/CD, Monitoring (Datadog)
- **Practices:** CI/CD (GitLab/GitHub), Debugging, Performance Monitoring (Datadog), Product Execution, Stakeholder Communication, Feedback Integration, Agile/Scrum002E
- **AI & Automation:** ML Model Integration, Agentic AI Concepts, Function Calling APIs, AI-assisted Development, Deep learning certifications.