John Doe

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Education

Example University *City, State*

M.S. in Computer Science, GPA: 3.67/4.00 Aug 2024 – May 2026

- Relevant Coursework: Software Engineering, Cyber Forensics, Advanced Database Management Systems, Software Validation, Data Structures & Algorithms, Cloud Computing, DevOps Principles, Agile Development

Publications

Research Paper

Doe, J., Smith, A. K., & Doe, J. (September 2025)

Technical Skills

- **Programming Languages:** Python, C++, JavaScript, Swift, SQL
- **Frameworks & Platforms:** Spring Boot, Node.js, React, Next.js, Vue.js, REST & GraphQL APIs, gRPC
- **Cloud & DevOps:** AWS (EC2, S3, EKS), Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, CI/CD
- **Databases & Tools:** PostgreSQL, MongoDB, Redis, Kafka, Linux, Prometheus, Grafana, Postman, Git, JIRA
- **Artificial Intelligence & Security:** Machine Learning, Natural Language Processing, Generative AI, DevSecOps, Application Security, Authentication & Authorization, Cryptography, Malware Analysis

Experience

Machine Learning Research Assistant *Example University, City, State*

Example University Dec 2024 - Current

- Developed machine learning models and feature extraction pipelines for ARM/FPGA side-channel datasets to detect hardware Trojans, addressing noisy signal challenges and achieving **96% classification accuracy**.
- Engineered a synthetic data generation system to rebalance skewed datasets (10 Trojan vs. 20K non-Trojan samples), mitigating class imbalance issues and improving model generalization by **30%**.
- Automated denoising and preprocessing workflows in Python to handle inconsistent side-channel traces, enhancing trace consistency by **35%** and ensuring reproducible experiments.

Software Engineer Intern *TechCorp, City, Country*

TechCorp Jan 2023 – May 2024

- Built secure and scalable REST and gRPC microservices in Java (Spring Boot) for payment and wallet systems to handle high transaction volumes, optimizing API throughput and improving performance by **20%**.
- Deployed distributed microservices using Kafka, Redis, and AWS EKS to address system downtime, maintaining **99.9% uptime** and enhancing reliability through proactive monitoring with Prometheus and Grafana.
- Implemented CI/CD pipelines with Jenkins and GitHub Actions for Dockerized applications, resolving manual release bottlenecks and reducing deployment time by **30%**.

Projects

Serverless Deployment Platform

Tech Stack: AWS, System Design, Docker, Redis, Kafka, PostgreSQL, Node.js, Next.js, Linux, CI/CD, Prometheus, Grafana

- Built a serverless deployment platform to automate build, test, and hosting workflows, addressing slow manual release cycles and reducing deployment latency by **60%** for over 50 concurrent deployments.
- Designed fault-tolerant microservices with continuous monitoring using Prometheus and Grafana, improving platform reliability and incident response time.

AI-Powered Flight Meta-Search Platform

Tech Stack: FastAPI, SwiftUI (iOS), PostgreSQL, Docker, OpenRouter API, AWS

- Built an AI-driven flight meta-search platform integrating third-party APIs with 2.2 s p95 latency via Redis caching and async I/O.
- Trained ML models on 250K+ fares (XGBoost, GBR) for 85% price accuracy and 18% cost savings.
- Deployed FastAPI microservices on AWS ECS with Terraform and CI/CD. Added LLM chat assistant for personalized recommendations, boosting engagement by 35%.