

Troy Lorents
Phoenix, Arizona
(c) 928-814-3226 – (e) troy.j.lorents@gmail.com
LinkedIn: <https://www.linkedin.com/in/troy-lorents/>
Web: <https://troy-lorents-portfolio.netlify.app/>
GitHub: <https://github.com/TroyJLorents-GH>

OVERVIEW

Full Stack/AI Engineer and Cloud Architect with 8+ years of designing and delivering enterprise-scale, cloud applications on AWS, Azure, and GCP. Experienced in building DevOps/CI/CD pipelines, and leading cross-functional teams to modernize legacy systems, improving reliability and performance. Strong background with .NET (Core, EF) Python (FastAPI/Flask), React, and automation to make systems more secure, efficient, and easier to operate.

EXPERIENCE

ASU (School of Computing & Augmented Intelligence) - Ira A. Fulton School of Engineering **July 2024 – Present**

Web Application Developer

- Architected and deployed a full-stack enterprise Student Hiring System supporting 200 active users and 900+ positions per semester, using React, ASP.NET Core Web API, Entity Framework, and SQL Server; later modernized with Python/FastAPI for scalability. Implemented CAS SSO + RBAC, delivered secure releases via automated CI/CD, and continued to lead feature development and platform enhancements.
- Built cross-system integrations and data pipelines across Power Automate, ServiceNow, Microsoft Forms, Google Sheets, Airtable, and other systems with monitoring, retries, and operational runbooks, saving 100+ labor hours per cycle.
- Designed and implemented secure cloud architecture across Azure (App Service, DevOps, Azure SQL, Blob Storage) and AWS (EC2, Lambda, API Gateway, DynamoDB), achieving 99.9% uptime with monitoring and release traceability through CI/CD.
- Drove technical strategy and architectural decision-making for enterprise applications, establishing design patterns, API standards, and cloud-native best practices.
- Mentored a team of 4+ engineers through code reviews, pair programming, and technical workshops, supporting DevOps transformation (Git-flow, CI/CD automation, infrastructure-as-code) and Agile delivery across 3 cross-functional teams (HR, IT, Academic).
- Designed and deployed an AI-enabled document retrieval service (Python/Flask + React) with secure cloud integration and operational monitoring.
- Designed scalable cloud architecture for AI-powered applications using Azure AI Foundry, implementing microservices pattern with Azure Functions, API Management for rate limiting and security, and Azure Key Vault for secrets management.
- Built and maintain full-stack services using Node.js + React, deploying containerized APIs via CI/CD pipelines, with environment configuration and production monitoring.

Zywave Inc. (Remote)

April 2020 – Jan 2024

Software Engineer

- Developed and maintained full-stack healthcare SaaS applications using React.js, TypeScript, C#, ASP.NET Core, Entity Framework and Dapper on SQL Server, and AWS/Azure, serving 10,000+ enterprise users with 99.5% uptime.
- Designed and optimized RESTful APIs and backend services, improving performance, scalability, and secure data exchange across distributed systems.
- Automated CI/CD pipelines using GitLab and Octopus Deploy and managed container orchestration with Rancher, improving release efficiency and deployment reliability across cloud environments.
- Improved system performance through asynchronous programming, load testing, and query optimization, reducing latency and downtime.
- Ensured HIPAA-compliant architecture, secure API communication, and comprehensive API documentation (Swagger/OpenAPI) to support enterprise integrations.

Data Administrator/Software Engineer

- Managed a team of four by assigning tasks and onboarding/training new hires, improving team productivity and knowledge transfer.
- Automated ETL processes with Python (Pandas, OpenPyXL), Excel VBA, and web scraping with UBot Studio streamlining insurance data workflows and reducing manual errors.
- Collaborated with cross-functional teams to QA datasets for insurance partners and customers, ensuring accuracy and compliance.
- Managed broker/agent relationships to promote SaaS quoting tools while driving outreach, renewals, onboarding, and KPI tracking in Salesforce to improve sales strategy and team performance.

EDUCATION

- Arizona State University, Tempe, AZ
B.A. in Business Law – W.P. Carey School of Business - May 2017
- Arizona State University, Tempe, AZ
B.S. Software Engineering – Expected May 2026

CORE STRENGTHS

- End-to-End Ownership | System Design & Scalable Architecture | Cloud-Native Development & CI/CD
- API Design & Distributed Systems | Automation & Workflow Orchestration | UX-Driven Internal Tooling
- Operational Reliability, Observability & Performance Optimization | Cross-Functional Technical Leadership

TECHNICAL SKILLS

- **Languages & Core Technologies:** Python, C#, TypeScript, JavaScript (ES6+), HTML5, CSS3, Bash
- **Front-End Development:** React.js, Next.js, React Native, Expo, Tailwind CSS, Material UI, Bootstrap
- **Back-End & Frameworks:** Node.js, Express.js, ASP.NET Core, Entity Framework, Dapper, FastAPI, Flask, REST APIs, GraphQL, Apollo Server & Client, TanStack (Table, Query, Router), Google Maps API, Google Places API
- **Cloud & DevOps:** **Azure** (App Service, Foundry, SignalR, Azure OpenAI, Cosmos DB, Blob Storage, Key Vault, DevOps), **AWS** (Lambda, EC2, Elastic Beanstalk, API Gateway, DynamoDB, S3), **GCP** (Cloud Run, Cloud Build, Container Registry, Cloud Storage), Docker, GitHub Actions, Octopus Deploy, CI/CD Pipelines, Swagger (OpenAPI), Vercel
- **Databases & Data Management:** SQL Server, PostgreSQL, MySQL, Supabase, Amazon Redshift
- **Automation & Integration Platforms:** Power Automate, n8n, ServiceNow, Plumsail, Airtable, Power BI, SharePoint, UIPath, Blue Prism, Airflow
- **AI & Emerging Technologies:** Azure OpenAI, Microsoft Foundry, RAG Systems, Vector Search (Embeddings), Prompt Engineering, LangChain, LangGraph, Semantic Kernel

PROJECTS

- In Progress Projects - Portfolio (**Ask custom built agent about my experience**)
- NextStep – Carrer/Job Discovery Web App (TanStack/React/Supabase)
- HR Dashboard (.NET + Blazor) | Student Mgmt System (.NET + React) | Student Mgmt System (Py + React)

CERTIFICATIONS

- Certification Portfolio – [Certification Verification](#)
- Python for Data Science and AI (IBM) – [IBM Validation and Badge](#)
- Building Modern Python Applications on AWS - coursera.org/verify/789R3WEDAJ3E
- Amazon DynamoDB: Building NoSQL Database-Driven Applications - coursera.org/verify/6BPBKD6K7RA5

REFERENCES AVAILABLE UPON REQUEST.