Troy Lorents
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OVERVIEW

Full Stack Engineer and Cloud Architect with 8+ years 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. Seeking roles on teams that value solid engineering fundamentals, clear communication, and scalable solutions.

EXPERIENCE

Web Application Developer   **July 2024 – Present**

School of Computing and Augmented Intelligence (SCAI) – Ira A. Fulton School of Engineering – ASU

- Architected and deployed a full-stack enterprise Student Hiring System supporting 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 and delivered secure releases via automated CI/CD.
- Built cross-system integrations and data pipelines across Power Automate, ServiceNow, Microsoft Forms, Google Sheets, Airtable, and Amazon Redshift, with monitoring, retries, and operational runbooks, saving 100+ labor hours per cycle.
- Designed and implemented secure cloud architecture across Azure (Azure App Service, Azure 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, established design patterns, API standards, and cloud-native best practices. Mentored team of 4+ code reviews, pair programming, and technical workshops. Supported DevOps transformation (Git-flow, CI/CD automation, infrastructure-as-code) and Agile methodology across 3 cross-functional teams (HR, IT, Academic).
- Designed and deployed an AI-enabled service (Python/Flask + React) and supporting cloud architecture for secure document retrieval and workflow integration, emphasizing reliability, security, and operability
- 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 resilient full-stack solutions with React frontend, serverless backend, and multi-region deployment strategies for high availability.

Software Engineer   **April 2020 – Jan 2024**

Zywave Inc. (Remote)

- Developed and maintained full-stack healthcare SaaS applications using React.js, TypeScript, C#, ASP.NET Core MVC, Entity Framework, Dapper, and LINQ on SQL Server, and AWS/Azure, serving 10,000+ enterprise users with 99.5% uptime.
- Engineered and optimized RESTful APIs and database integrations, leveraging Python and C# to enhance performance, security, and scalability.
- Automated CI/CD pipelines using GitLab and Octopus Deploy, improving release efficiency and deployment reliability across cloud environments.
- Improved system performance through asynchronous programming, load testing, and query optimization, reducing latency and downtime.
- Managed container orchestration and monitoring with Rancher and maintained comprehensive API documentation with Swagger (OpenAPI) for seamless developer onboarding.
- Ensured HIPAA compliance and secure data exchange via JSON-based API communication and encryption best practices.
- Conducted unit testing (Moq), resolved production defects, and maintained development documentation in JIRA and Confluence, supporting Agile sprint cycles and continuous improvement.

Data Administrator   **Jan 2017 – April 2020**
RateFactory (Acquired by Zywave Inc.) – (Remote)
- 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 2025

SKILLS
- Analytic Problem-Solving
- Effective Communication (Oral & Written)
- Adaptability & Continuous Learning
- System Design & Architecture
- Process Automation & Optimization

TECHNICAL SKILLS
- **Languages & Core Technologies:** Python, C#, TypeScript, JavaScript (ES6+, jQuery), HTML5, CSS3, Bash
- **Front-End Development:** React.js, React Native, EXPO, Next.js, Material UI, Bootstrap, Tailwind CSS,
- **Back-End & Frameworks**: Node.js, Express.js, .NET Stack (ASP.NET Core, MVC, Web Forms, Entity Framework, Dapper, LINQ, xUnit), FastAPI, Flask, Django, REST APIs, GraphQL, Apollo Server & Client, TanStack (Table, Query, Router), LangChain
- **Cloud & DevOps:** Azure (App Service, SQL Database, Blob Storage, Key Vault, DevOps, App Insights), AWS (Lambda, EC2, Elastic Beanstalk, API Gateway, DynamoDB, S3, Amplify), GCP, Docker, Octopus Deploy, Git, GitHub Actions, CI/CD Pipelines, Swagger (OpenAPI), Postman, Insomnia
- **Databases & Data Management:** SQL Server, PostgreSQL, MySQL, Supabase, Amazon Redshift
- **Automation & Integration Platforms:** Power Automate, N8N, ServiceNow, Plumsail, Airtable, Power BI, SharePoint, OpenAI API, UIPath, Blue Prism
- **AI, ML & Emerging Technologies:** Azure OpenAI, Azure Foundry, Machine Learning LLMs (GPT-3.5/4/4o), RAG, Prompt Engineering), Vector Databases, LLM Application Development & Integration

PROJECTS
- Student Hiring System - (ASP.NET Core Web API + React Frontend)
- NextStep — Career/Job Discovery Web App (TanStack/React) — Repo
- In Progress Projects - Portfolio

CERTIFICATIONS
- List of Certifications: Open file

REFERENCES AVAILABLE UPON REQUEST.