

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>

OBJECTIVE

Senior Full Stack Engineer and Cloud Architect with 7+ years of experience designing and deploying enterprise-scale web applications across .NET, Python (FastAPI, Flask), React, and modern cloud environments (AWS, Azure, GCP). Passionate about building scalable, secure, and intelligent systems that bridge automation, data, and AI. Proven ability to lead cross-functional teams, modernize legacy platforms, and deliver cloud-native solutions that drive operational efficiency, reliability, and innovation. Seeking to contribute to a forward-thinking engineering organization that values architecture excellence, collaboration, and cutting-edge problem solving

EXPERIENCE

Web Application Developer (Senior Engineer)

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, built with React.js, ASP.NET Core Web API, Entity Framework, SQL Server, and later migrated to Python FastAPI for improved scalability and modernization. Integrated CAS SSO and role-based access control, deployed via Azure App Service and CI/CD pipelines for secure, automated releases.
- Built multi-cloud automation pipelines integrating Power Automate, ServiceNow, Microsoft Forms, Google Sheets, Airtable, and Amazon Redshift, streamlining HR and IT operations and saving 100+ labor hours per cycle through intelligent workflow automation.
- Designed and implemented secure, compliant cloud solutions on Azure (App Service, SQL Database, Blob Storage) and AWS (EC2, Lambda, API Gateway, DynamoDB), leveraging CI/CD pipelines in Azure DevOps for automated build, test, and deployment workflows achieving 99.9% uptime and full release traceability.
- Led technical strategy, code reviews, and architectural documentation, mentoring developers and promoting engineering excellence through Agile practices, DevOps maturity, and cross-functional collaboration across HR, IT, and academic teams.
- Launched a production-grade AI assistant using Python, Flask, React, and the OpenAI API, featuring document Q&A, vector search, and content moderation, demonstrating innovation in AI-driven automation while maintaining strict security and compliance standards.

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

Dec 2018 – April 2020

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.

Account Executive

Jan 2017 – Dec 2018

RateFactory (Acquired by Zywave Inc.) – Scottsdale, AZ

- 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+), HTML5, CSS3, Bash
- **Front-End Development:** React.js, React Native, EXPO, Next.js, Node.js, Express.js, Material UI, Bootstrap, Tailwind CSS, TanStack (Table, Query, Router)
- **Back-End & Frameworks:** .NET Stack (ASP.NET Core, MVC, Web Forms, Entity Framework, Dapper, LINQ, xUnit), FastAPI, Flask, Django, REST APIs, GraphQL, Apollo Server & Client, TanStack
- **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 (Cloud Run, Firestore), Docker, Octopus Deploy, Git, GitHub Actions, CI/CD Pipelines, Swagger (OpenAPI), Postman, Insomnia
- **Databases & Data Management:** SQL Server, PostgreSQL, MySQL, Supabase (Auth, Storage), Amazon Redshift
- **Automation & Integration Platforms:** Power Automate, N8N, ServiceNow, Plumsail, Airtable, Power BI, SharePoint, LangChain, OpenAI API
- **AI, ML & Emerging Technologies:** Machine Learning (LLMs, RAG, Prompt Engineering), Vector Databases, LLM Application Development & Integration

PROJECTS

- [Student Hiring System](#) - ([ASP.NET Core Web API](#) + [React Frontend](#))
- [Student Hiring System v2](#) – ([Python FastAPI backend](#) + [React Frontend](#))
- [NextStep – Career/Job Discovery Web App](#) – ([Repo](#))
- [In Progress Projects - Portfolio](#)

CERTIFICATIONS

- Amazon DynamoDB: Building NoSQL Database-Driven Applications - coursera.org/verify/6BPKD6K7RA5
- Building Modern Python Applications on AWS - coursera.org/verify/789R3WEDAJ3E
- Data Collection and Processing with Python - coursera.org/verify/GCSK9KJFES45
- Using Python to Access Web Data - coursera.org/verify/PK22SAHN8728
- Using Databases with Python - coursera.org/verify/NTZDJQUA3BZ8
- Python Data Structure - coursera.org/verify/2XU243TEV7WB
- Programming for everyone (Getting started with python) - coursera.org/verify/GZ93R27V77HN
- Capstone: Retrieving, Processing, & Visualization Data with Python - coursera.org/verify/MDFUJW84D2JP
- Python for Data Science and AI (IBM) – [IBM Validation and Badge](#)

REFERENCES AVAILABLE UPON REQUEST.