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

Dynamic Full Stack Software Engineer and Web Application Developer with a passion for building scalable, cloud-based, and AI-driven solutions. Skilled in React, .NET (Entity Framework, ASP.NET Core), Python (FastAPI, Flask), SQL, AWS, Azure and low-code platforms, with a proven record of streamlining complex business processes and delivering high-impact systems. Committed to continuous learning, engineering excellence, and innovation—helping organizations stay ahead in emerging technologies such as AI (LLMs) and intelligent automation. Seeking to contribute to a forward-thinking organization that values technical mastery, collaboration, and the pursuit of innovation.

EXPERIENCE

Web Application Developer   **July 2024 – Present**

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

- Built a full-stack student hiring system with React.js (React Router, ES6), Material UI, Bootstrap, and ASP.NET Core Web API + Entity Framework + SQL Server, later migrated to Python FastAPI; implemented CAS SSO and role-based access and deployed on Azure (App Service, SQL Database, Blob Storage) with CI/CD pipelines, improving scalability and security. *Live sites for both .NET and Python backend (* https://troy-lorents-portfolio.netlify.app/ *)*
- Developed an enterprise data pipeline integrating Microsoft Forms, Google Forms, Google Sheets, Power Automate, Amazon Redshift, and SQL Server, enabling daily automated sync of application and enrollment data.
- Automated hiring workflows for ~900 student roles per term using Adobe Sign, Airtable, Power Automate, Google Apps Scrip for an interactive Master Dashboard, saving 100+ HR hours per cycle by auto-saving contracts and eliminating manual downloads.
- Deployed cloud-native REST APIs and full-stack apps with AWS (EC2, Lambda, Elastic Beanstalk, API Gateway, DynamoDB, Amplify, CloudWatch, IAM) and Docker, increasing system reliability and portability.
- Streamlined HR, IT, and faculty operations by building tools with ServiceNow, Plumsail, Power BI, WordPress, Airtable, and writing Splunk queries for advanced monitoring and analytics.
- Created IT surplus management tools using PowerShell + WPF with Active Directory + Airtable and Nmap-driven network scans, improving device tracking and asset management accuracy.
- Launched a production-ready AI assistant with Python, Flask, React, and OpenAI API, featuring document Q&A, keyword extraction, vector search, content moderation, and web scraping using BeautifulSoup, supporting faculty and student automation needs.

Software Engineering   **April 2020 – Jan 2024**

Zywave Inc. (Remote)

- Developed full-stack healthcare SaaS applications using Python, C#, React.js, Node.js, TypeScript, and AWS Cloud, improving efficiency across front-end and back-end systems.
- Built secure REST APIs and optimized databases with Python, SQL, C# ASP.NET Core MVC, AWS; automated deployments with Octopus and managed code with GitLab, ensuring consistent delivery.
- Enhanced system performance through asynchronous programming, CI/CD pipelines (GitLab), and performance testing, reducing downtime and latency.
- Led container monitoring with Rancher and maintained API documentation/testing with Swagger (OpenAPI), improving developer onboarding and API adoption.
- Implemented secure JSON-based data exchange across APIs to ensure compliance with healthcare regulations, reducing security risks.
- Improved functionality by conducting unit testing (Moq), resolving bugs, and providing technical support through JIRA, while documenting workflows in Confluence.
- Collaborated in Agile SCRUM teams, contributing to sprint planning, retrospectives, and stakeholder-driven requirements, ensuring alignment with business goals.

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
October 2024

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

TECHNICAL SKILLS
Python, C#/.NET, ASP.NET, MVC, UI/UX (React.js, Material UI, Bootstrap), TypeScript, JavaScript (ES6), HTML5, CSS3, Node.js, SQL Server, Django, PostgreSQL, REST APIs, AI (Machine Learning), GIT, Bash, Docker, Octopus, Azure, AWS Cloud Products (Lambda, DynamoDB, CloudWatch, EC2, S3, API Gateway, Amplify, Elastic Beanstalk), Power Automate, SharePoint, Airtable, Plumsail, ServiceNow, Power BI, Splunk, JIRA, Confluence, Swagger, Insomnia, Elastic, TinkerCad (circuits/robotic prototyping), Blender (3D modeling, rendering, and animation), CAD tools (Fusion 360, etc.)

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

CERTIFICATIONS
- Amazon DynamoDB: Building NoSQL Database-Driven Applications - [coursera.org/verify/6BPBKD6K7RA5](#)
- 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.