Troy Lorents
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(c) 928-814-3226 - (e) troy.j.lorents@gmail.com

OBJECTIVE

Dynamic Software Engineer and Web Application Developer with a passion for building scalable, full-stack solutions across cloud, automation, and AI-driven technologies. Skilled in React, .NET, Python, SQL, AWS, and low-code platforms, with a proven track record of streamlining complex business processes and developing high-impact systems. Dedicated to continuous learning, innovation, and helping organizations stay at the forefront of emerging industries, particularly AI and intelligent automation. Looking to grow within a forward-thinking organization that values dedication, collaboration, and driving the future of technology.

EXPERIENCE

Web Application Developer **July 2024 – Present**
School of Computing and Augmented Intelligence (SCAI) – Ira A. Fulton School of Engineering - ASU

- Designed and deployed a full-stack student hiring app with a focus on UI/UX using React.js (React Router, ES6), Material UI, and Bootstrap, backend built with ASP.NET Core Web API, Entity Framework Core, and SQL Server. Included email-password authentication for authorized coordinators and protected dashboard views.
- Built an enterprise-scale data pipeline integrating Microsoft Forms, Google Forms, Google Sheets, Power Automate, and Amazon Redshift, capturing and transforming student application data, class schedules, and active enrollment records into SQL Server with daily syncs.
- Automated the hiring process for ~900 student roles per term using Adobe Sign, Airtable, Power Automate, and Google Apps Script. Generated dashboards and developed flows to auto-save Adobe Sign PDFs to local or network folders, eliminating manual downloads and reducing HR overhead by 100+ hours per cycle.
- Hosted scalable REST APIs and deployed web/mobile applications using AWS (EC2, Lambda, Elastic Beanstalk, API Gateway, IAM, CloudWatch, DynamoDB, Amplify), configured CORS and containerized deployments with Docker.
- Built and maintained internal systems with ServiceNow, Plumsail, Power BI, WordPress, and Airtable to streamline HR, IT, and faculty-facing workflows; developed advanced Splunk queries for network monitoring and data analysis.
- Created PowerShell and WPF tools integrated with Active Directory and Airtable for managing IT surplus; implemented Nmap-driven network scans to identify device metadata such as MAC addresses and physical location.
- Launched a production-ready full-stack AI assistant using Python, Flask, React, and the OpenAI API—featuring document Q&A, keyword extraction, vector search, custom content moderation, and web scraping via BeautifulSoup.

Software Engineer **June 2020 – Jan 2024**
Zywave Inc. (Remote)

- Full-stack developer specializing in Python, C#, React.js, Node.js, TypeScript, and AWS Cloud Products for front-end and back-end systems, including database design, API integration, and optimization.
- Built and maintained web and cloud-based healthcare applications using Python, SQL, AWS, and C# ASP.NET Core MVC; designed REST APIs, automated deployments with Octopus, and managed GitLab version control.
- Enhanced system performance with asynchronous programming, GitLab CI/CD pipelines, and performance testing.
- Led containerized application monitoring via Rancher and maintained robust API documentation and testing with Swagger (OpenAPI).
- Implemented secure JSON data exchanges across APIs and ensured regulatory compliance in data workflows.
- Conducted unit testing (Moq), resolved issues and bugs, and provided technical support using JIRA to improve functionality. Utilized Confluence for thorough documentation.

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- Engaged in Agile and SCRUM development cycles, participating in daily stand-ups, sprint planning, retrospectives, and stakeholder-driven project intake.

Data Administrator **Feb 2019 - June 2020**
Zywave Inc. (Remote)

- Managed a team of four, assigned tasks, and provided onboarding/training.
- Automated ETL tasks using Python (OpenPyXL, Pandas), Excel macros/VBA.
- Collaborated cross-functionally to QA data for insurance partners and customers.

Account Executive **Jan 2017 - Feb 2019**
RateFactory (Acquired by Zywave Inc.); Scottsdale, AZ

- Managed relationships with brokers and agents to promote SaaS quoting tools.
- Created and optimized quarterly outreach strategies, contract renewals, and onboarding flows.
- Developed and tracked KPIs in Salesforce dashboards and reports.
- Proactively sourced leads, negotiated terms, and improved team sales strategies through competitive research and CRM insights.

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
August 2024 - Current

SKILLS

- Analytic Problem-Solving
- Effective Communication (Oral & Written)
- Project Management & Prioritization
- Team Collaboration & Leadership
- Adaptability & Continuous Learning
- Process Improvement & Automation

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, 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.)

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, and Visualization Data with Python -coursera.org/verify/MDFUJW84D2JP
- Python for Data Science and AI (IBM) - https://www.credly.com/badges/41ddec4d-ec7d-42bd-bfd8-d0dbe4a420ca?source=linked_in_profile

REFERENCES AVAILABLE UPON REQUEST.