

Stephen A. Rice

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HIGHLIGHTS

- MS in CS, 4 years of software engineering experience
- Experience with Rust, Golang, C#, Python, SQL, React, and TypeScript
- Background and continued interest in machine learning
- Experience developing projects from design to release, collaborating across teams
- Excellent communication and collaboration skills, a passion for learning, and an ownership mentality

PROFESSIONAL SUMMARY

I am a software developer with a master's degree and six years of experience in the computer science and software engineering domain contributing to systems for IOT, desktop, and web applications. With a background in engineering, data analysis, and information security, and professional experience in software development, I bring a unique blend of analytical and technical capabilities.

WORK EXPERIENCE

Software Developer, February 2021 to May 2025

Promess Incorporated, Brighton, MI

As project lead

- MotionPro/UltraPro Connectors | API servers for interfacing with press controllers (C#/.NET, Rust, gRPC, Linux)
 - Took professional ownership over these projects, with quick development and minimal bugs
 - These were critical to the deployment of new applications for contracts worth millions of dollars
- BDD and TDD | Monitoring and testing applications for new applications (Rust)
 - Developed behavior monitoring and end-to-end automated testing applications
 - Catching bugs during development could save the developers weeks of work at release of the product

As a member of a team

- UltraPro | Manufacturing press controls and sensor data analysis software (C#/.NET, C++, XML)
 - Testing, debugging, and new releases of the desktop application and embedded firmware
 - This software was central to the company's highest-earning product, bringing in tens of millions of dollars per year
- UltraPro2 | Modern retooling and upgrade of UltraPro (Rust, GraphQL, React, TypeScript, Linux)
 - R&D, development and testing of the desktop application and embedded firmware
 - This product was forecasted to raise the company to over \$100M in sales.
- Workflow Director | Barcode scanning web application microservice (Go, MQTT)
 - Developed the backend, event-driven system, and the connection to the UltraPros
 - This product was added to the sales lineup, and has since generated millions of dollars in sales.
- Data Utility | Expanded data analysis software for UltraPro (SQL)
 - Optimized the application to use more efficient queries
 - Cut some load times from minutes to under a second
- Deployed IOT applications via containers (Docker, Kubernetes)
 - This allowed for easy patching, updating, and scaling of applications.
- Utilized agile practices (Scrum) and modern software development processes for CI/CD, revision control, interface specifications, and defect tracking (Azure, Github, Jira, Confluence).

Graduate Assistant, January 2019 to December 2020

Eastern Michigan University, Ypsilanti, MI

- Coded with multi-threaded web scraping and syntax analyzers to mine Python files on Github as a research assistant, to be used for NLP and machine learning
- Tutored in Java and Python
- Aided as a teaching assistant in applied cryptography

EDUCATION

MS in Computer Science

Eastern Michigan University, Ypsilanti, MI

Coursework in algorithms and data structures, networks, embedded systems, parallel processing, functional programming, machine learning, and AI. Training in Agile methods with experience leading in the role of Scrum Master. For my thesis, I trained a LLM for punctuation prediction (PyTorch, GCP, AWS).

BS in Nuclear Engineering & Radiological Sciences

University of Michigan, Ann Arbor, MI

Focus on nuclear energy. For my coursework I utilized algorithmic development, functional safety and risk analysis, computer modeling, and programming in C++, Python, and Matlab

SKILLS

Rust, Go, C#/.NET, Python, Java, SQL, C++, JavaScript, Matlab, React, TypeScript, XML, Lisp, REST API, gRPC, protobuf, GraphQL, Swagger, WebAssembly, MQTT, Node.js, NPM, WSL, Docker, Kubernetes, Visual Studio, Azure DevOps, Version Control (Git), CI/CD, Amazon Web Services (AWS), Google Cloud Platform (GCP), Agile Practices, Embedded Software, Development in Linux, Asynchronous and Multithreaded Programming, Streaming Data Pipelines, Functional Programming, Networking, Machine Learning/AI, Object Oriented Design, Research, Modeling, QA, Testing, Debugging, Data Analysis, Agile Methodologies (Scrum)