

Joseph Ressler

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PROFESSIONAL SUMMARY

Versatile Software Engineer with proven experience in Blazor, Cloud Engineering, and machine learning, specializing in building scalable web applications and robotic & IoT interfaces. Demonstrated success in leading development projects, optimizing system performance, and mentoring team members to achieve project milestones. Skilled in translating complex technical challenges into innovative solutions.

EDUCATION

Clark University

B.A. in Interactive Media: Game Programming

Worcester, MA

Aug. 2020 – May 2024

EXPERIENCE

Accu-Assembly Inc.

Full Stack Software Engineer

North Reading, MA

September 2024 – Present

Developed full-stack Blazor Server applications interfacing with robotic and IoT devices, improving system integration by 40%

Designed and trained custom computer vision models for object classification and segmentation, achieving 95% accuracy

Mentored and upskilled two team members on emerging machine learning technologies, expanding team's technical capabilities

KC Embers

Game Programmer

Barrington, NH

January 2024 – September 2024

Engineered backend components for core gameplay systems, enhancing overall game performance

Refactored existing code to implement advanced object-oriented programming principles, improving code maintainability

Clark University

Teaching Assistant, Computer Programming C++

Worcester, MA

August 2023 – May 2024

Facilitated student learning by delivering clear, concise explanations of complex programming concepts

Provided comprehensive code debugging support in classroom, office hour, and tutoring environments

Alumni Ventures

Special Project Assistant

Manchester, NH

June 2023 – August 2023

Conducted in-depth research to establish groundwork for an industry-specific focus fund

Performed data analysis and generated strategic reports to track project progress and measure key success metrics

Optimized CRM automation within HubSpot to enhance data management efficiency and accuracy

PROJECTS

AccuCart Blazor IoT interface App | C#, Blazor, IoT

Developed data-interfacing web application using Blazor as a port for Microsoft Foundation Class application

Implemented secure data access and manipulation using EntityFramework Core to enable robust two-way IoT communication

AccuLift Blazor Service App | C#, Blazor, Javascript

Created Windows Service application for robot and data interfacing using Blazor

Ensured secure data manipulation through EntityFramework Core implementation

Flask Website | Python, Flask, AWS Lightsail, MySQL, Docker

Developed full-stack web application featuring 3 Retrieval-Augmented Generation (RAG) Large Language Models, then implemented comprehensive user authentication system

Deployed and hosted application on AWS infrastructure

Zenatria | Unity, C#, Git

Designed and developed Tower Defense game demo showcased at PAX East

TECHNICAL SKILLS

Languages: C#, Python, JavaScript/Typescript, C++, HTML, CSS, Shell Scripting, Lua

Databases & Data Tools: SQL, Relational Database Design, mongoDB, EntityFramework, SSMS, MySQL Workbench, DataGrip, Tableau

Frameworks & Libraries: .NET 8.0, React, Flask, Blazor, torch & torchvision, jQuery, openai, opencv, PIL, wtforms, mysql, llama_index, ZXing/Quagga, jupyter/ipykernel, Bootstrap

Developer Tools: Git Ecosystem (LFS, GHub) Visual Studio, VS Code, Jira, Wordpress, Unity, JetBrains IDEs, Cloudflare, Sentry, Trello, GitHub Copilot, Cursor, Roblox Studio, CVAT, Inno Setup, Jenkins

Cloud/Remote Platforms: AWS (Lightsail, S3), Google Cloud Run, Docker, WSL

Soft Skills: Prompt Engineering, Agile, Scrum, CI/CD, Machine Learning, Live Service development & debugging, Waterfall, Internet of Things