

ALEX KAISER

SOFTWARE ENGINEER



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SUMMARY

Resourceful and innovative Software Engineer with 2+ years of experience in designing embedded systems, developing full-stack web applications, and utilizing coding languages such as Python, TypeScript, C, and C++. Proficient in collaborating with product customers, translating requirements into code, overseeing configuration management, and conducting root cause analysis to resolve problems.

EXPERIENCE

DornerWorks Ltd. August 2022 – January 2023
Software Engineer Co-op – FPGA Grand Rapids, MI

- Accelerated machine learning/artificial intelligence algorithms by communicating with engineers to improve algorithm performance by a factor of 100
- Configured SoC's (System on a Chip) to run embedded applications
- Led team of engineers in areas of software development by hosting meetings to ensure project success

DornerWorks Ltd. May 2021 – August 2022
Software Engineer Co-op – Secure Technologies Grand Rapids, MI

- Developed embedded applications by collaborating with product customers to optimize application functionality
- Designed code for full-stack desktop applications by utilizing React, TypeScript, and Python to enhance user experience
- Reduced application vulnerabilities by conducting root cause analysis when resolving development errors

PROJECTS

seL4 Doom Pendulum Demo Project Manager

Managed a team of engineers to design an application that shows the benefits of a hypervisor to customers. Led team to complete and exceed all requirements over a month ahead of schedule.

Full Stack Applications Individual Projects

Designed a variety of full-stack web and desktop applications using the following technologies: AWS, SQL/NoSQL, React, TypeScript, ASP.NET, Node.js, Python, Docker, Machine Learning.

EDUCATION

Grand Valley State University
Allendale, Michigan
August 2018 – December 2023

BS in Electrical Engineering
BS in Computer Engineering

- 3.85 GPA
- Honors College
- Business Minor
- Tau Beta Pi Engineering Honors Society
- Deans list every semester

TECHNICAL SKILLS

- C/C++
- Docker, AWS
- Python
- SQL/NoSQL
- React, ASP.NET
- JavaScript/TypeScript
- Bash/Shell Scripting

PROFESSIONAL SKILLS

- Software Design
- Hardware/FPGA Design
- Root Cause Analysis
- Project Management
- Customer Interaction