

Joshua Fawcett

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WORK EXPERIENCE

Mfg. System Software Development Engineer | Intel – Hillsboro, OR Oct 2022 – Present

- Deliver level 2 application support for mission-critical factory automation software applications used in semiconductor manufacturing environments.
- Perform deep-dive investigations into incidents using log files, app code review, SQL DB querying, and other tools, supporting fast root cause isolation and resolution.
- Develop internal tools in Python and C# (WPF/.NET) to automate troubleshooting and data analysis processes.
- Facilitate crisis meetings between automation, factory, engineering, and business stakeholders, effectively eliminating lines-down situations.
- Lead a task force to generate support documentation for diagnostic and resolution procedures, reducing L1 to L2 escalations by 60% and streamlining operational processes

PROJECTS

Automation Support Tools @ Intel

Oct 2022 – Present

- Developed internal tools to support automation diagnostics and reduce manual effort, including:
 - SECS/GEM log viewer | Dynamic XML-to-CSV converter | Word-to-MediaWiki editor
- Utilized Python3, C#.NET, WPF, Tkinter, XAML, and OOP/MVVM principles.

Secure Messenger Application

Jan 2022 – Mar 2022

- Led a team in the design and implementation of a secure messenger application following a simple client-server architecture, hosted on an AWS EC2 virtual machine instance.
- Utilized UML, Python3, SQLite, multi-threading, socket programming, and Cloud/AWS.

Publisher/Subscriber Server Backend

Mar 2020 – Jun 2020

- Implemented a server backend to handle simulated publisher/subscriber requests for a mock social media platform.
- Utilized the C programming language, Linux/Bash, Make, multi-threading, synchronization, and data structures.

TECHNICAL SKILLS

Languages: Python, C/C++, C#, HTML/CSS, JavaScript, Bash, SQL

Tools/Other: Git, .NET/WPF, XAML, Unix/Linux, Trello/Kanban, Unity, JSON, AWS, Elastic

EDUCATION

University of Oregon – Eugene, OR

Sep 2018 – Jun 2022

- B.S. in Computer & Information Science, Minor in Mathematics
Academic Honors: Dean's list
GPA: 3.77