Cassidy Jarrell

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Professional Summary

Mid-level software engineer with 6+ years of experience in designing and developing web applications, internal tooling, and infrastructure solutions. Adept at building efficient, scalable tools and systems using C#, JavaScript, SQL, and Python. Proven track record of improving infrastructure efficiency and collaborating with cross-functional teams to optimize automation and data flow.

Relevant Skills

- **Programming Languages:** C#, JavaScript, TypeScript, SQL, HTML/CSS, Java, Python, C++, Swift
- **Frameworks/Libraries:** .NET Framework, ASP.NET Core, React, RESTful APIs, Node.js, Next.js, Yarn/Npm
- **Databases:** Microsoft SQL Server, PostgreSQL
- **Identity/Access Management:** Active Directory, LDAP, OAuth2
- **Development Tools:** Visual Studio, Git, Docker, Azure DevOps, JIRA

Experience

Software Engineer, Fujifilm Dimatix **May 2018-Present**

- Led the development of in-house tools, web applications, and automation systems to optimize manufacturing processes.
- Developed a wafer defect web application, reducing defects earlier in the process using .NET Framework, SQL Server, and ASP.NET Web APIs.
- Increased wafer processing efficiency by 70% and reduced errors by nearly 100% through tool automation that integrates with fault detection systems and MES.
- Designed and maintained a utilities web application used across the engineering team, streamlining the management of tool, product, and wafer data using SQL Server, RESTful APIs written in .NET (C#) and browser clients using React/Typescript/Next.js.
- Collaborated with process and equipment engineers to continuously improve automation and data integration between tools and the MES.

Software Engineer Intern, Fujifilm Dimatix **Jul 2017-May 2018**

- Worked alongside engineers to develop integrated automation systems, improving manufacturing output and productivity.
- Assisted in creating infrastructure tools and systems that aligned with process engineering needs, leading to enhanced operational efficiency.

Personal Projects

Smart Plant Monitoring System — Swift, SwiftUI, Raspberry Pi, Arduino

- Developing a SwiftUI iOS app to display real-time plant data from Arduino sensors and perform automated functions to optimize plant health and growth
- Syncing sensor data via Bluetooth/Wi-Fi for remote monitoring and control.

Education

San José State University — *B.S. in Computer Engineering, Minor in Women, Gender, and Sexuality Studies*

- Achievements: President, Women's Club Lacrosse Team