

Dan Volchek

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Professional Experience

Amazon – AWS SageMaker Shared Services

July 2021 – June 2024

Software Engineer 2

Seattle, WA

- Collaborated on a team of 7 developing the external facing SageMaker control plane service and other systems shared across 20+ internal teams that power the industry leading cloud artificial intelligence/machine learning platform.
- Designed and launched a re-architecture of SageMaker's GDPR data management system to eliminate 100+ operational tickets per year. Identified the project opportunity and justified ROI to management. Re-wrote Java code-base, operational tooling, and documentation to enable maintainability and organizational growth. Migrated with 0 system downtime.
- Overhauled the team's weekly operational review process - in my spare time - by creating Golang scripts to automatically generate reports. Created leadership visibility into unmonitored key operational metrics and reduced engineer time to prepare reports by 3+ hours per week.
- Mentored intern by teaching project planning, design, and programming skills. Reviewed design and code with feedback focused on teaching how to think about problems and be a great engineer.

Amazon – AWS IoT Device Tester

July 2019 – June 2021

Software Engineer 1

Seattle, WA

- Worked on a team of 5 to design and develop a Golang IoT device testing framework used by 5+ IoT hardware vendors to verify their hardware/software compatibility with the AWS IoT Cloud.
- Led project to design and implement a React based web app to replace the command-line user experience for the testing framework. Designed the user interface by working with UX designer and PM. Created the frontend/backend architecture while delegating work to 1 other engineer.
- Led project to make the testing framework available for internal + external customer usage. Designed and implemented a new API layer for test case/test framework communication. Planned project and work for 2 other engineers. Communicated throughout with our customers to ensure the right problems were being solved well.

Skills

Languages

Golang, Java, Python – proficient
C#, React, HTML, Typescript – knowledgeable

Technologies

AWS (DynamoDB, Lambda, SQS, CloudFormation),
CI/CD pipelines, Docker, React

Education

University of Illinois at Urbana-Champaign

Master of Computer Science – 3.96 GPA

Class of 2019

Bachelor of Science in Computer Science – High Honors – 3.87 GPA

Class of 2018

Projects

Video Game Modding

2017 – 2020

Stardew Valley

- Created 29 mods for the popular farming game that have been downloaded 4.1+ million times.