

Trey Moen

Newberg, OR

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Summary

A people- and detail-oriented, creative, self-starter with 2+ years of software development and DevOps experience. I enjoy working on scalable back-end and front-end systems in fast paced environments. Seeking to leverage and expand my skillset with new people, domains, and challenges.

Education

George Fox University (GFU)

Newberg, OR

B.S. IN COMPUTER SCIENCE — CYBER SECURITY CONCENTRATION — GPA: 3.7

Aug 2018 — May 2022

- Won first place out of 8 teams in the 2021 GFU Code Jam hackathon ([GitHub](#)) by working with two colleagues to develop [BookLend](#), a peer-to-peer borrowing and book lending service for college students
- Elected member of the [Computer Science Student Advisory Board](#), communicating student feedback on the major to professors to ensure representation for the diversity of the students and their interests and career goals
- Student under the [George Fox Honors Program](#), a Great Books general-education program — read over 130 texts spanning 3,000 years and held Socratic discussions
- Selected as one of 40 mentees to participate in the George Fox “IGNITE” industry mentorship program

Work Experience

JNJ Software, Ltd.

Remote — Vancouver, BC, Canada

FULL-STACK SOFTWARE DEVELOPMENT ENGINEER

Jan 2019 — Jul 2021

- *Technology used:* DigitalOcean, Docker, Go, Grafana, Heroku, HTML/CSS/JS, Kubernetes, MongoDB, Node.js, Prometheus, Redis, TypeScript
- Powered the core of a growing business as the lead developer in a fast paced development environment by building, documenting, and maintaining myriad projects including REST APIs using TypeScript, MongoDB, and Heroku, client-facing and internal web dashboards in Node.js, HTML, CSS, and JavaScript, and object-oriented language libraries in Go and TypeScript
- Grew existing infrastructure to handle nearly one million messages per day and process terabytes of data per month by designing and building a highly distributed, scalable, web scraping platform and real-time message pipeline focusing on high availability using Docker, Kubernetes on DigitalOcean, MongoDB, Redis, and Node.js
- Reduced pipeline latency to a sub-80 millisecond average through data analysis and profiling applications and systems with tools like Grafana and Prometheus

E&J Gallo Winery

Modesto, CA

PROGRAMMER ANALYST INTERN — INFORMATION SECURITY TEAM

Jun 2021 — Aug 2021

- *Technology used:* AWS (CloudFormation, EC2, EventBridge, GuardDuty, IAM, Lambda, S3, Secrets Manager, SQS), Python
- Saved personnel hours of their work week by automating the manual analysis and remediation of low to high severity findings, achieved by developing a serverless, real-time alert and auto-remediation system deployed across 20+ AWS accounts and 17 AWS regions using Python, AWS Lambda, CloudFormation, GuardDuty, SQS, and more
- Refined endpoint security by auditing hundreds of AWS resources both manually and through automation for security flaws and best practice conformance, including EC2 security groups and IAM policies and roles
- Proved the scalability of the auto-remediation system by pitching and validating my solution with AWS Solutions Architects, an AWS Security specialist, and Technical Account Manager

George Fox University (GFU)

Newberg, OR

TECHNICAL MANAGER — SENIOR CAPSTONE PROJECT

Aug 2021 — Present

- *Technology used:* Docker/Docker-compose, PostgreSQL, Python, PyTorch, Robot OS (ROS)
- Led teammates to continue developing vineyard grape yield estimation models using a PyTorch machine learning toolset while simultaneously developing an autonomous, self-driving rover to collect data powered by Docker and Robot Operating System
- Reduced machine learning training time to empower the development of larger, more complex datasets using PyTorch and PostgreSQL
- Coordinated projects spanning different technical domains to produce deliverables that met deadlines

George Fox University (GFU)

Newberg, OR

LAB ASSISTANT

Aug 2020 — Present

- *Technology covered:* C/C++, Java, \LaTeX , MPI, Python, Scala
- Empower and lead students toward understanding concepts and technologies from intro to advanced CS core courses, including data structures, algorithms, parallel programming paradigms, relational databases, and programming style and best practices
- Assist running university-hosted events like the [Inter-Collegiate Programming Contest](#) (ICPC) and [GFU High School Programming Contest](#)

Certification

