Trey Moen

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Personal Summary

A people- and detail-oriented, creative, self-starter with 2+ years of software development and DevOps experience. I enjoy working on scalable back- 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 by working with 2 colleagues to develop BookLend, a peer-to-peer borrowing and book lending service for college students (GitHub)
- 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 program — read over 130 texts spanning 3,000 years and held rigorous, socractic-style discussions applying authors' ideas to open-ended questions
- Selected as 1 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   *Aug 2019 — Jul 2021*

- *Technology used: DigitalOcean, Docker, Electron.js, Go, Heroku (CI/CD), HTML/CSS/JS, Kubernetes, MongoDB, Node.js, 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, web dashboards in Node.js, HTML, CSS, and JavaScript, and object-oriented language libraries in Go and TypeScript
- Built from the ground up infrastructure to handle nearly one million messages per day and process terabytes of data per month by building a distributed, scalable, web scraping platform and real-time message pipeline using Docker, Kubernetes on DigitalOcean, MongoDB, Redis, and Node.js
- Reduced pipeline latency to a sub-80 millisecond average through 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

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 several PyTorch machine learning neural networks and tools while simultaneously developing an autonomous, self-driving rover to collect image and sensor data powered by Docker and Robot Operating System
- Reduced machine learning training time to enable the development of larger, more complex machine learning datasets using PyTorch
- Communicated with teammates and 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++, CUDA, GitLab, 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

AWS Certified Cloud Practicioner   *Jul 2021*