Trey Moen

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SUMMARY

A people-first, creative developer with over 2 years of software development experience. Seeking to develop, expand, and leverage my technical skills with new people and domains, and to find solutions to new challenges.

EDUCATION

Bachelors of Science in Computer Science, Cyber Security | George Fox University | Newberg, OR | 2022 | 3.74 GPA

EXPERIENCE

Full-stack Software Engineer (Remote) | JNJ Software, Ltd | Vancouver, BC | August 2019 - July 2021
· Technology used: DigitalOcean, Docker, Electron.js, Golang, Grafana, Heroku (CI/CD), HTML/CSS/JavaScript, Kubernetes, MongoDB, Node.js, Prometheus, React.js, Redis, TypeScript.
· Maintained over 14 projects including REST APIs, web dashboards, object-oriented language libraries, and databases, powering a fast-paced, growing business as the lead developer through design and documentation.
· Processed 30 million messages and 5 terabytes of data per month by building a distributed web scraping platform and real-time message pipeline.
· Maintained a sub 80 millisecond pipeline average latency through optimizing code, profiling, and data analysis.
· Resulted in onboarding 20 new clients within 1 year, pushing new product features every month.

Programmer Analyst Intern | E&J Gallo Winery | Modesto, CA | June 2021 - August 2021
· Technology used: AWS (CloudFormation, EC2, EventBridge, GuardDuty, IAM, Lambda, S3, Secrets Manager, SQS), Python.
· Saved team personnel 5 hours a week by automating analysis and remediation of security findings, developing a server-less alert system deployed across 20 AWS accounts and 17 AWS regions.
· Audited 100s of AWS resources manually and through automation for security flaws and best practice conformance, including EC2 security groups, IAM policies and roles, and S3 storage bucket policies, improving the organization's AWS endpoint security.
· Resulted in completing 2 projects that moved to production during internship.

Technical Manager | George Fox University | Newberg, OR | August 2021 - Present
· Technology used: Docker and Docker-compose, Flask, PostgreSQL, Python, PyTorch, Robot OS (ROS), TorchVision.
· Led 5 teammates with project manager in my senior capstone project to develop 1 machine learning model using neural networks trained on 1TB of images and an autonomous, self-driving rover powered by artificial intelligence to collect image and sensor data.
· Reduced training time by 85% to enable the development of larger, more complex datasets using PyTorch.
· Coordinated 3 projects spanning different technical domains to gather project requirements and produce deliverables that met deadlines.

Lab Assistant | George Fox University | Newberg, OR | August 2020 - Present
· Technology covered: C, C++, CUDA, GitLab, Java, LaTeX, MPI, Python, Scala.
· Empower and lead students toward understanding concepts and technologies in the 32 intro to advanced CS core courses, including data structures, algorithms, parallel programming paradigms, relational databases, and programming style, best practices, and test coverage.
· Assist running 2 university-hosted events: the Inter-Collegiate Programming Contest (ICPC) and GFU High School Programming Contest.

PROJECTS

Wedding Website | Personal Project | August 2021 - Present
· Created a website for my wedding in June 2021 to host resources including the RSVP link and registries.
· Written using the 3 frameworks Next.js, React.js, and Material-UI, and hosted on an Nginx web server.
· Implemented an image gallery using a content management system to showcase engagement photos.

INVOLVEMENT

Selected Member | George Fox University | Computer Science Student Advisory Board (SAB) | December 2020 - Present
· Selected as 1 of 4 board members to collaborate on ways to improve coursework and class content.
· Collected student feedback on the 2 majors and 32 courses.
· Presented to 3 senior faculty members the feedback received at the end of each semester.

CERTIFICATIONS

Certified Cloud Practitioner | Amazon Web Services | 2021
Demonstrates cloud fluency and foundational AWS knowledge; able to identify essential AWS services necessary to set up AWS-focused projects.