

Harry Zhu

San Francisco, CA | hello@harryzhu.com | linkedin.com/in/harryjzhu | github.com/HarryZ10 | harryzhu.com

SKILLS

Languages: Python · SQL · C# · C/C++ · JavaScript · TypeScript · Java · Scala · Bash · PHP

Frameworks & Tools: .NET · React · Node · BigQuery · PostgreSQL · Docker · AWS · GCP · Tailwind

PROFESSIONAL EXPERIENCE

Software Engineering Contributor — Recidiviz YC S19 November 2024 – Present

- Engineered Python automation to standardize 200+ BigQuery schema manifests across 20 state agencies, reducing per-file query processing time from ~2.5s to near-instant through local schema caching

Software Engineer Intern — F5 Networks July 2024 – September 2024

- Achieved 8-minute crash investigations in CI/CD using Bash scripts and GDB, a debugging tool for C programs
- Reduced overall crash resolution time by 80% by analyzing test logs across 50+ test and production environments
- Accelerated development across engineering teams by aggregating 5+ stack traces into bug reports per day
- Expanded knowledge sharing by creating documentation on crash analysis procedures for more testing parameters

Software Engineer Intern — Liminal Insights, Inc. June 2023 – August 2023

- Reduced configuration time by 90% by developing **NextJS** and **Python** containerized services using Docker
- Improved battery testing reliability by architecting a message-oriented system processing 50+ debug logs/minute
- Achieved 95% uptime for 100+ industrial control events through Redis-driven data flow by removing race conditions

Software Engineer Intern — Recidiviz YC S19 June 2022 – August 2022

- Architected security offboarding automation system handling 15+ annual departures using Docker and Python frameworks, driving 95% efficiency gain in audit workflows until replacement by enterprise SOC2 solution
- Prevented potential security incidents through implementation of 10 new security controls in Google Cloud
- Eliminated 200+ vulnerabilities in the product architecture through automated security scanning and remediation

Security Analyst Intern — Northwest Natural Energy, LLC May 2021 – August 2021

- Enabled real-time tracking of 1000+ daily logins through Splunk dashboard implementation for threat detection
- Reduced team search time by 5+ hours weekly through overhaul of 100+ SharePoint files and incident plans

ACADEMIC EXPERIENCE

Software Engineer Intern — TZ Medical ECG Triage AI Project September 2023 – April 2024

- Engineered data processing pipeline handling **34,000+** ECG events, achieving **~95%** precision in anomaly detection using **SciPy**, **NumPy**, and **Scikit-Learn** using Python scripts for feature extraction and model evaluation
- Collaborated cross-functionally with engineering team to translate user requirements into technical specifications

CSIS Teaching Assistant — George Fox College of Engineering August 2022 – April 2024

- Mentored 50+ students through targeted group sessions in data structures, algorithms, database systems, computer architecture, object-oriented design, operating systems, using Java, Python, C/C++, PHP, JavaScript, and Scala

Software Engineer Intern — George Fox Corporate Marketing Office August 2021 – April 2024

- Reduced development cycles by 90% by optimizing CMS workflows across 20+ common tasks using **NodeJS**
- Streamlined content review time by 95% through automated API monitoring system for 4,000+ pages
- Enhanced user experience for 1,000+ daily visitors through performance and design optimization of 100+ pages

EDUCATION

George Fox University August 2020 – April 2024

Computer Science, Bachelor of Science Newberg, OR

Coursework: Distributed Programming (C/C++), Artificial Intelligence, Deep Learning, Algorithms, Data Structures

Activities: Teaching Assistantship (2yrs), CodePath, ACM President & Tech Lead, College Track, Gameheads

Technical Projects: github.com/HarryZ10/ecg, pickaboxdemo.netlify.app, live-foxacmw-com.vercel.app