

Harry Zhu

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

EDUCATION

George Fox University

Computer Science, Bachelor of Science

August 2020 – April 2024

Newberg, OR

Coursework: Algorithms in Scala/Java, Data Structures in Java, Operating Systems, Database Systems

Activities: CodePath Emerging Engineers Summit, ACM President & Technology Chair, College Track, Gameheads

SKILLS

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

Frameworks: JUnit · Spring · Hibernate · JDBC · React · Node · Tailwind

Tools: Jenkins · PostgreSQL · Docker · GitHub · Bitbucket · AWS · Azure · Google Cloud · Linux

EXPERIENCE

Software Engineer Intern

F5 Networks

July 2024 – September 2024

Seattle, WA

- Achieved 8-minute crash investigations in CI/CD using Bash scripts and GDB, a debugging tool for C programs, analyzing test logs across 50+ test environments, reducing overall resolution time by 80%
- Streamlined debugging by automating crash dump analysis and stack trace processing into bug reports, accelerating development across multiple engineering teams using Agile and working with the traffic management agent
- Expanded knowledge sharing by creating documentation on crash analysis procedures for more testing parameters
- Led technical review sessions and collaborated with cross-functional engineering teams to gather requirements, establish testing parameters, and implement debugging solutions

Software Engineer Intern

George Fox University Communications Office

August 2021 – April 2024

Newberg, OR

- Reduced development cycles by 90% through automated developer workflows and standardized deployment processes
- Improved content quality validation by 95% through an API-driven automated monitoring system implementation
- Slashed build times to 2-4 seconds by optimizing content management system workflows across 20+ common tasks
- Enhanced user experience for 1,000+ daily visitors through performance and design optimization of 100+ pages
- Led A/B testing initiatives through cross-team collaboration and adopting new features by 80% in 50+ pages

Software Engineer Intern

Liminal Insights, Inc.

June 2023 – August 2023

Emeryville, CA

- Reduced configuration time by 90% by developing cloud-agnostic infrastructure using containerized microservices
- 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, Inc.

June 2022 – August 2022

San Francisco, CA

- Reduced security audit time by 95% by building an automated tool using REST APIs and GraphQL with 17 vendors
- Prevented 3+ 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

PROJECTS

TZ Medical ECG Medical Triage - Group Capstone Project | github.com/HarryZ10/ecg

- Designed system architecture to handle real-time medical data processing with fault tolerance
- Extracted 8 domain features on over **34,000+** ECG events by developing standalone data processing and ETL scripts using **SciPy**, **NumPy**, and **Scikit-Learn**, resulting in **~95%** precision in identifying meaningless ECG data

Journex Career Blog (Blind Clone) | TypeScript, AWS, PHP | 70 hours | blog.harryzhu.com

- Designed 10 **React** components and 9 back-end **APIs** using **PostgreSQL** in **Ubuntu Linux** on an **EC2** instance
- Implemented JWT APIs server-side and React Contexts and Hooks to manage user authentication and blog services