

Harry Zhu

San Francisco, CA | harryzhu45@gmail.com | linkedin.com/in/harryjzhu | github.com/HarryZ10 | harryzhu.com

EDUCATION

George Fox University

Bachelor of Science in Computer Science

Graduated April 2024

Newberg, OR

Coursework: Ethical Hacking, Secure Software, Cyber Defense, Data Networking

Activities: CodePath, ACM President, 2x CTF Medalist (Top 200), College Track, Gameheads

SKILLS

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

Tools: React · NodeJS · NextJS · TailwindCSS · Docker · AWS · BigQuery · PostgreSQL

PROFESSIONAL EXPERIENCE

Engineering Contributor (Civic Tech) — Recidiviz

November 2024 – Present

- Retired 200+ SQL sensitive data queries by pre-fetching metadata cache using Python, achieving near-instant lookups and boosting developer productivity, with projected savings exceeding \$10-15K in BigQuery costs annually

Software Engineer Intern — F5 Networks

July 2024 – September 2024

- Implemented automated debugging using **Bash** shell scripting in Docker containers to analyze **100+** CI/CD pipelines resulting in **70%** faster crash analysis for **45+** **developers** on F5's core traffic management system
- Expanded knowledge sharing by creating documentation on crash analysis procedures, supporting 30+ developers
- Accelerated crash recovery time by 10% across teams by aggregating 5+ stack traces into bug reports per day

Software Engineer Intern — University Communications Office

August 2021 – April 2024

- Engineered 20+ **NodeJS** programs to leverage CMS workflow APIs, reducing development cycles and time by 90%
- Streamlined content review time by 95% through an API-driven **VueJS** CMS monitoring system for 4,000+ pages
- Enhanced user experience for 1,000+ daily visitors through performance and design optimization of 100+ pages

Software Engineer Intern — Liminal Insights, Inc.

June 2023 – August 2023

- Reduced product configuration time by 90% by developing a Docker-driven feature flag tool in React for 7+ features
- Improved battery testing reliability by building a ZeroMQ message queue 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

June 2022 – August 2022

- Eliminated 200+ vulnerabilities in the product platform through automated security scanning and remediation
- Built API-driven security account automation system handling **15+** annual departures using Docker and Python frameworks, driving **95%** efficiency gain in audit workflows until replacement by enterprise SOC2 solution
- Deployed 10 security controls in Google Cloud, including log monitoring via Pub/Sub, Slack alert integrations, and PagerDuty incident response scripts, reducing mean time to detection (MTTD) by 40%

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

PROJECTS

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

- Collaborated with 12 tech professionals to gather and translate business requirements into technical specifications
- 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 anomalous ECG data

Pickabox - Hackathon Team Project | React, Express, Google Cloud | pickaboxdemo.netlify.app

- Won 2nd place in Best Design by building a web app used by 1K+ users to aggregate **Wikipedia** articles
- Designed and launched an app showcasing random Wikipedia articles to enhance user learning and exploration