# Harry Zhu

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#### SKILLS

# 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

- $\bullet$  Accelerated crash recovery time by 10% across teams by aggregating 5+ stack traces into bug reports per day
- Automated GDB debugging program using REST APIs and Shell scripting in a Docker-driven staging environment to analyze 100+ CI/CD pipelines resulting in 70% faster crash analysis impacting 50+ developers and 500+ customers
- Expanded knowledge sharing by creating documentation on crash analysis procedures, supporting 30+ developers

## **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 React CMS monitoring system for 4,000+ pages
- $\bullet$  Led A/B testing efforts through cross-team collaboration and adopting new features by 80% in 50+ pages
- Enhanced user experience for 1,000+ daily visitors through performance and design optimization of 100+ pages
- Facilitated requirements gathering sessions with stakeholders to define business needs and web support tickets

## **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

- 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
- Prevented potential security incidents through implementation of 10 new security controls in Google Cloud

## 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 meaningless 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

#### Journex Career Blog (Blind Clone) | React, TypeScript, AWS Ubuntu Linux, PHP | blog.harryzhu.com

• Implemented JWT APIs server-side and React Contexts and Hooks to manage user authentication and blog services

## EDUCATION

#### George Fox University

Graduated April 2024

Bachelor of Science in Computer Science (Minor in Cybersecurity)

Newberg, OR