

# Harry Zhu

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## SKILLS

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

**Frameworks:** React · Node.js · Vue · NoSQL · Express · Tailwind · SciPy · JUnit

**Tools:** Linux · TCP/IP · UDP · PostgreSQL · Docker · Kubernetes · CI/CD · AWS · Azure · Git

## EXPERIENCE

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### Software Engineer Intern

July 2024 – September 2024

F5 Networks

Seattle, WA

- Accelerated development process across multiple teams by building a **CI/CD** module that can investigate a crash from functional tests in 50+ staging and production environments using **GDB** and **Bash** within 8 minutes
- Conducted daily analysis of 5-10 CI/CD pipeline executions, leveraging **GDB** to examine crash dumps and aggregate stack traces and relevant source code from functional test logs into **Bugzilla**, an enterprise bug reporting software
- Expanded knowledge sharing by documenting project scope, deliverables, and milestones in **Jira** and **Confluence**

### Software Engineer Intern

August 2021 – April 2024

George Fox University Communications Office

Newberg, OR

- Engineered a **monitoring tool** using **Vue** and **NodeJS**, reducing manual verification of content accuracy by 95%
- Achieved a **90%** reduction in manual build time for various tasks time down to 2-4 seconds by developing 20+ user-driven programs in **NodeJS** interacting with the content management system and various public web services
- Optimized branding and web accessibility by redesigning **90+** legacy pages trafficked by **1,000+** users with **CSS**

### Software Engineer Intern

June 2023 – August 2023

Liminal Insights, Inc.

Emeryville, CA

- Reduced product configuration time by 80% by building an app with a service-oriented architecture in **Python**
- Optimized battery cell testing process efficiency, offloading **50+** log messages/minute with **ZeroMQ** and pub/subs
- Stabilized uptime and data flow of 100+ **OPC** events, removing race conditions involving **Redis** subscriptions

### Software Engineer Intern

June 2022 – August 2022

Recidiviz, Inc.

San Francisco, CA

- Built an access monitoring tool in **Python**, **Docker**, and **GCP**, reducing **IAM** audit time by 90% across 17 vendors
- Introduced over 10 new security controls and alerts in infrastructure services across 3 disparate cloud environments
- Resolved **200+** product and container vulnerabilities using **CI/CD** with **CodeQL** and **Trivy** for automated scans

## PROJECTS

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### Pickabox - Hackathon Team Project | React, Express, Google Cloud | 45 hours | [pickaboxdemo.netlify.app](https://pickaboxdemo.netlify.app)

- Won 2nd place in Best Design at Sacramento Hacks in 2021 using **Cloud Run** services for scalable APIs
- Designed and launched an app showcasing random Wikipedia articles to enhance user learning and exploration

### TZ Medical ECG Medical Triage - Group Capstone Project | [github.com/HarryZ10/ecg](https://github.com/HarryZ10/ecg)

- Extracted 8 domain features on over **34,000+** ECG events by developing standalone data processing and ETL scripts using **SciPy**, **Pandas**, **NumPy**, **Tensorflow**, and **Scikit-Learn** libraries
- Detected arrhythmia events close to **95%** precision on a **70-80%** confidence interval with **Random Forest**

## EDUCATION

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### George Fox University

August 2020 – April 2024

Computer Science, Bachelor of Science

Newberg, OR

**Coursework:** Data Comm & Networking, Parallel & Distributed Systems, Database Systems, Operating Systems

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