

Harry Zhu

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EDUCATION

George Fox University

Computer Science, Bachelor of Science

Graduated April 2024

Newberg, OR

EXPERIENCE

F5 Networks, Inc.

Seattle, WA

Software Engineer Intern (Contractor)

July 2024 – Present

- Reduced manual debugging overhead of 1,000+ crashes with each crash analysis going from 90 to 8 minutes by engineering a **CI/CD** pipeline to visualize test logs in 100+ staging environments using **GDB** with **Bash** scripts
- Conducted daily analysis of 5-10 CI/CD pipeline executions and functional test logs per day, leveraging **GDB** for core dump examination to optimize backtrace aggregation from device testing for the BIG-IP product
- Expanded knowledge sharing by documenting project scope, deliverables, and milestones in **Jira** and **Confluence**

George Fox Enrollment and Marketing Department

Newberg, OR

Software Engineer Intern

August 2021 – April 2024

- Engineered a **monitoring tool** using **Vue** and **NodeJS**, reducing manual verification of content accuracy by 95%
- Achieved a **90%** reduction in manual build 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 by redesigning **100+** legacy pages trafficked by **1,000+** users with **JavaScript** and **CSS**
- Increased web accessibility by developing and **A/B testing** 50+ features in a collaborative, cross-functional team

Liminal Insights, Inc.

Emeryville, CA

Software Engineer Intern

June 2023 – August 2023

- 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

Recidiviz, Inc.

San Francisco, CA

Software Engineer Intern

June 2022 – August 2022

- 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

Northwest Natural Energy, LLC

Portland, OR

Security Analyst Intern

May 2021 – August 2021

- Streamlined security protocols by documenting inventory for 20+ in-house software and hardware systems
- Created a **Splunk** dashboard for real-time detection of suspicious logins and tracking pre-success failed attempts
- Revamped enterprise knowledge sharing by overhauling 100+ legacy **SharePoint** files, enhancing process efficiency

PROJECTS

TZ Medical - ECG Medical Triage (Group Capstone Project) | SciPy, Tensorflow, Scikit-Learn

- Extracted 8 domain features on over **34,000+** ECG events by developing standalone data processing scripts
- Detected arrhythmia events close to **95%** precision on a **70-80%** confidence interval with **Random Forest**

Pickabox - Hackathon Team Project | 45+ hours of React and Python development with Google Cloud

- Won 2nd place in Best Design at Sacramento Hacks in 2021
- Implemented Wikipedia API integrations using **Cloud Run** services to develop the article retrieval service

SKILLS

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

Frameworks: React · Node · Vue · NoSQL · GraphQL · NumPy

Tools: Docker · CI/CD · AWS · Google Cloud · Linux · Figma · MongoDB · Git