

# Harry Zhu

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## SKILLS

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

**Frameworks:** React · Node.js · Vue · .NET · NoSQL · Express · Tailwind · SciPy · Kubernetes/K3S · JUnit

**Tools:** PostgreSQL · Docker · Kubernetes · CI/CD · AWS · Langchain · Azure · Linux · 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 **C** crash dumps and aggregate stack traces and 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**
- Leveraged courses to rapidly acquire **Kubernetes** and **K3S** proficiency, significantly advancing DevOps capabilities

### 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 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

### Software Engineer Intern

June 2023 – August 2023

Liminal Insights, Inc.

Emeryville, CA

- Reduced product configuration time by **80%** by building a **RESTful API** powered web app with a service-oriented architecture in **Python** and **NextJS** with **PostgreSQL**, using **Docker** for containerization and debugging
- 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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### Journex Career Blog (Blind Clone) | TypeScript, AWS, PHP | 70 hours | [blog.harryzhu.com](https://blog.harryzhu.com)

- Designed 10+ **React** components and 10+ back-end **RESTful APIs** using **PostgreSQL** in **Ubuntu Linux**
- Implemented JWT APIs server-side and React Contexts and Hooks to manage user authentication and blog services

### 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**, **NumPy**, and **Scikit-Learn**, resulting in close **95%** precision on an **80%** confidence interval

## EDUCATION

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### George Fox University

August 2020 – April 2024

Computer Science, Bachelor of Science

Newberg, OR

**Coursework:** Machine Learning, Operating Systems, Database Systems, Algorithms, Data Structures

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