

# Harry Zhu

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## EDUCATION

### George Fox University

April 2024

Bachelor of Science in Computer Science

Newberg, OR

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Database Systems, Machine Learning

Affiliations: Teaching Assistant, CodePath, College Track, Association for Computing Machinery, Gameheads

## EXPERIENCE

### Software Engineer Intern (Full-Stack)

August 2021 – April 2024

George Fox University

Newberg, OR

- Engineered a monitoring tool using **VueJS** and **NodeJS**, reducing manual verification of content accuracy by 99%
- Developed 20+ automation scripts in **NodeJS**, achieving a 99% reduction in manual build time down to 2-4 seconds
- Optimized branding by building 100+ pages with **JS** and **CSS3**, supporting the archival of 1,000+ legacy pages

### Software Engineer Intern (Backend)

June 2023 – August 2023

Liminal Insights

Emeryville, CA

- Reduced flagship product deployment time by 99% by building a configuration platform using **NextJS** and **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

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 vulnerabilities found in production by creating a **CI/CD** pipeline for **SAST**

### Security Analyst Intern (SecDevOps)

May 2021 – August 2021

Northwest Natural Gas Utility Company

Portland, OR

- 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

### ECG Event Triage for TZ Medical (Group Capstone Project) | 50+ hours of **SciPy** and **Tensorflow**

- Extracted and engineered 8+ domain features on over 32,000 ECG events by developing 3+ data processing pipelines
- Detected arrhythmia events with over 95% precision and 70% confidence by creating a supervised learning algorithm

### Journex Blog Platform (Personal Project) | 50+ hours of **PHP** and **TypeScript** in an AWS EC2 Ubuntu Server

- Architected 10+ **React** components and 10+ back-end REST API endpoints for real-time PostgreSQL transactions
- Implemented JWT APIs server-side and React Contexts and Hooks to manage user authentication and blog services

### Pickabox (Hackathon Team Project) | 45+ hours of **React** and **Python** development with Google Cloud services

- Won 2nd place in Best Design at Sacramento Hacks in 2021
- Deployed a full-stack web app that enhances user engagement with Wikipedia articles and images
- Implemented **Cloud Run** services for back-end Wikipedia API pipelines to manage the article retrieval service

## ADDITIONAL SKILLS

**Languages:** Java(2yrs) · C#(2yrs) · Bash(2yrs) · C/C++(2yrs) · Scala · Tailwind · Jira · Git · MongoDB