Harry Zhu

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EDUCATION

George Fox University Graduated April 2024
Computer Science, Bachelor of Science Newberg, OR

EXPERIENCE

F5 Networks, Inc. Seattle, WA
Software Engineer Intern (Contractor) July 2024 – September 2024
- Reduced manual debugging overhead of 6,000+ 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
- Developed 20+ automation scripts in **NodeJS**, achieving a 90% reduction in manual build time down to 2-4 seconds
- Engineered a **monitoring tool** using **Vue** and **NodeJS**, reducing manual verification of content accuracy by 95%
- 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+ legacy and new features in a 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