

Harry Zhu

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EDUCATION

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

EXPERIENCE

- F5, Inc** Seattle, WA
Software Engineer Intern July 2024 – Present
- Reduced manual debugging overhead of 50+ crashes from 90 to 8 minutes by developing an CI/CD pipeline to investigate functional test logs using **GDB** with **Bash** scripts
 - Strengthened code correctness and quality by troubleshooting 5+ crashes/day in the traffic management subsystem staging environments through advanced debugging techniques using **GDB**
- 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

- ECG Classifications for TZ Medical, Inc. (Group Project) | SciPy, Tensorflow, Scikit-Learn**
- Extracted 8+ domain features on over **34,000+** ECG events by developing 3+ 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 **Cloud Run** services for back-end Wikipedia API 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