Harry Zhu

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SKILLS

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

Frameworks: React · Node.js · Vue · NoSQL · Express · Tailwind · SciPy · JUnit

Tools: PostgreSQL · Docker · Kubernetes · CI/CD · AWS · Azure · Linux · Git

EXPERIENCE

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 crash dumps and aggregate stack traces and relevant 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**

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 and web accessibility by redesigning **90+** legacy pages trafficked by **1,000+** users with **CSS**

Software Engineer Intern June 2023 – August 2023
Liminal Insights, Inc. Emeryville, CA
- 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

Security 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

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

Pickabox - Hackathon Team Project | **React**, **Express**, **Google Cloud** | 45 hours | **pickaboxdemo.netlify.app**
- Won 2nd place in Best Design at Sacramento Hacks in 2021 using **Cloud Run** services for scalable APIs
- Designed and launched an app showcasing random Wikipedia articles to enhance user learning and exploration

EDUCATION

George Fox University August 2020 – April 2024
Computer Science, Bachelor of Science Newberg, OR

Coursework: Penetration Testing, Secure Software, Operating Systems, Data Communications & Networking

Activities: 3x NCL and DoD CTF Top 500 Competitor, ACM President & Technology Chair, CodePath Emerging Engineers Summit, College Track, Gameheads