

Harry Zhu

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SKILLS

Languages: C/C++ · HTML · Java · Python · C# · PowerShell · JavaScript · TypeScript · PHP · SQL
Tools: React · Node · VueJS · GraphQL · PostgreSQL · Docker · AWS · GCP · Tailwind

PROFESSIONAL EXPERIENCE

- Volunteer Software Engineer** November 2024 – Present
Recidiviz YC S19 Oakland, CA
- Optimizing BigQuery query times for ingestion and normalization of PII data across 8+ state agencies using Python
- Software Engineer Intern** July 2024 – September 2024
F5 Networks Seattle, WA
- Achieved 8-minute crash investigations in CI/CD using Bash scripts and GDB, a debugging tool for C programs
 - Reduced overall crash resolution time by 80% by analyzing test logs across 50+ test and production environments
 - Accelerated development across engineering teams by aggregating 5+ stack traces into bug reports per day
 - Expanded knowledge sharing by creating documentation on crash analysis procedures for more testing parameters
- Software Engineer Intern** June 2023 – August 2023
Liminal Insights, Inc. Emeryville, CA
- Reduced configuration time by 90% by developing **NextJS** and **Python** containerized microservices using Docker
 - Improved battery testing reliability by architecting a message-oriented system processing 50+ debug logs/minute
 - Achieved 95% uptime for 100+ industrial control events through Redis-driven data flow by removing race conditions
- Software Engineer Intern** June 2022 – August 2022
Recidiviz YC S19 San Francisco, CA
- Architected security offboarding automation system handling 15+ annual departures using Docker and Python frameworks, driving 95% efficiency gain in audit workflows until replacement by enterprise SOC2 solution
 - Prevented potential security incidents through implementation of 10 new security controls in Google Cloud
 - Eliminated 200+ vulnerabilities in the product architecture through automated security scanning and remediation
- Security Analyst Intern** May 2021 – August 2021
Northwest Natural Energy, LLC Portland, OR
- Enabled real-time tracking of 1000+ daily logins through Splunk dashboard implementation for threat detection
 - Reduced team search time by 5+ hours weekly through overhaul of 100+ SharePoint files and incident plans

ACADEMIC EXPERIENCE

- Software Engineering Teaching Fellow** August 2022 – April 2024
George Fox College of Engineering Newberg, OR
- Mentored 70+ students through targeted group sessions in data structures, algorithms, database systems, computer architecture, object-oriented design, operating systems, using Java, Python, C/C++, PHP, JavaScript, and Scala
- Software Engineer Intern** August 2021 – April 2024
George Fox Corporate Marketing Office Newberg, OR
- Reduced development cycles by 90% by optimizing CMS workflows across 20+ common tasks using **NodeJS**
 - Streamlined manual content review time by 95% through automated API monitoring system for 4,000+ pages
 - Led A/B testing efforts through cross-team collaboration and adopting new features by 80% in 50+ pages
 - Enhanced user experience for 1,000+ daily visitors through performance and design optimization of 100+ pages

EDUCATION

- George Fox University** August 2020 – April 2024
Computer Science, Bachelor of Science Newberg, OR
- Coursework:** Distributed Programming (C/C++), Artificial Intelligence, Deep Learning, Algorithms, Data Structures
Activities: CodePath, Software Engineering Teaching Fellow, ACM President & Tech Lead, College Track, Gameheads
Technical Projects: github.com/HarryZ10/ecg, pickaboxdemo.netlify.app, live-foxacmw-com.vercel.app