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

EXPERIENCE

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   August 2021 – April 2024
George Fox University Communications Office   Newberg, OR
- Reduced development cycles by 90% by optimizing CMS workflows across 20+ common tasks using **NodeJS**
- Improved content quality validation by 95% through an API-driven **NodeJS** web server implementation
- 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

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   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 YC19   San Francisco, CA
- Reduced security audit time by 95% by building an automated tool using REST APIs and GraphQL with 17 vendors
- 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

PROJECTS

Journex Career Blog (Blind Clone) | **React**, **TypeScript**, **AWS Ubuntu Linux**, **PHP** | blog.harryzhu.com
- Implemented JWT APIs server-side and React Contexts and Hooks to manage user authentication and blog services

TZ Medical ECG Medical Triage - Group Capstone Project | github.com/HarryZ10/ecg
- Extracted 8 domain features on over **34,000+** ECG events by developing standalone data processing and ETL scripts using **SciPy**, **NumPy**, and **Scikit-Learn**, resulting in ~**95%** precision in identifying meaningless ECG data

EDUCATION

George Fox University   August 2020 – April 2024
Computer Science, Bachelor of Science   Newberg, OR
Awards: Top Outstanding CS Student, National Cyber League 2x Top Capture The Flag Competitor
Activities: CodePath, Teaching Fellow, ACM President & Tech Lead, College Track, Gameheads