

HARRY JUN SHENG ZHU

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Education

George Fox University, College of Engineering (Portland, Oregon)

Expected April 2024

Bachelor of Science, Computer Science, Dean's List, GPA: 3.4, Director of Clubs, Teaching Assistant, College Track

Coursework: Business Analytics, Statistics, Algorithms, Database Systems, Machine Learning, Artificial Intelligence

Experience

George Fox University

Portland, OR

Web Development Intern, University Marketing & Communications

August 2021-Present

- Leveraging advanced skill in responsive design and front-end development (HTML, CSS, **JavaScript**) using Figma and **Adobe XD** to overhaul 10% of the most promoted pages, enhancing user experience and site performance by 50%
- Produced 50+ web pages to resolve 100+ support tickets to increase user conversions by 50%
- Engineered over 15+ **REST**-driven data pipelines in **Node.js** and Apache Velocity, enabling real-time data retrieval from the on-system **CMS** and reducing web page maintenance and manual building time by 99%
- Expanded content development by 95% with 10+ automation scripts to validate internal and routine digital management actions, including auditing, publishing, creating, and editing web pages or sections programmatically

Liminal Insights, a battery manufacturing intelligence company

Emeryville, CA

Software Engineer Intern, Systems

June 2023-August 2023

- Architected an internal and on-system feature management service to increase the integration of behavior-driven development by 50% and to support 5+ switchable feature settings of the flagship software platform, Echo Stat[®]
- Designed the full-stack product extension using **React.js** and **Postgres** that uses in-house REST services to isolate feature settings instantly by 99% to deploy the Echo Stat[®] product onto customer sites without manual configuration
- Maintained adequate battery cell test throughput of six seconds by offloading 100% of synchronous logs into a **pub/sub** communication protocol using the asynchronous messaging library **ZeroMQ**
- Refactored the OPC to Redis communication mechanism, leading to a 20% increase in improved stability of Echo Stat[®] and its physical connectivity with the network to its native hardware field devices

Recidiviz, a non-profit empowering criminal justice analytics

San Francisco, CA

Software Engineer Intern, Cloud & Systems Security

June 2022-August 2022

- Pioneered a command line interface of 20+ automation scripts that performs comprehensive login and IAM group policy audits and reports elevated privileges in 17 **B2B** platforms, reducing manual verification time by 99%
- Resolved 100% of **CodeQL** security alerts in the production environment that were identified to be in the Open Worldwide Application Security Project's (**OWASP**) top ten vulnerabilities in common software and codebases
- Built a pipeline of three automation scripts utilizing **pub/sub** listeners that boosted the transparency of alerts across disparate cloud environments by 90%, implementing 20+ hardening measures set by the Center for Internet Security
- Empowered standard security benchmarks by 20% to integrate multi-factor authentication corporate security policies

Northwest Natural Gas, a natural gas utility company

Portland, OR

Security Operations Analyst Intern

May 2021-August 2021

- Developed and deployed 6 **SQL** scripts, resulting in a 50% decrease in average response time for identifying suspicious login activity and enhancing security measures for 10+ privileged IT systems
- Created six interactive dashboards and real-time alerts, leading to a 10% reduction in incident response time
- Assessed 100% of internal cybersecurity procedures, ensuring compliance with frameworks like NIST and ISO 27001

Gameheads, a non-profit professional development program for low-income youth

Oakland, CA

Project Manager & Gameplay Engineer

June 2020-December 2020

- Led an 80% increase in engagement and 50% reduction in UI load time by engineering UI flows and backend services
- Orchestrated management of 120+ pull requests using **Trello**, contributing to a 95% achievement rate per sprint
- Performed 20+ test verifications for 5+ game features in line with the team's OKRs and engaged in **A/B testing** with 23+ stakeholders, resulting in a 70% enhancement to UX quality and level metrics up to the published [demo build](#)

Technical Skills

Languages: Python, Java, React, Node.js, Next.js, JavaScript, Java, CSS, HTML, Bash, C#, C/C++, SQL, Scala, MIPS32

Tools: Postgres, Git, Linux, Docker, Google Cloud, Figma, Redis, Junit, Pytest, Peewee (ORM), Splunk, GraphQL, NoSQL

Industry: Scrum, Agile, CI/CD, Object-Oriented Design, Unit Testing, Application Security, SAST, DAST, OPC-UA