

# Harry Zhu

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## EDUCATION

### George Fox University

Newberg, OR

*Bachelor of Science in Computer Science*

*Expected April 2024*

- *Relevant Coursework: Algorithms, Data Structures, Computer Architecture, Operating Systems, Parallel Computing Systems, Database Systems, Machine Learning, Artificial Intelligence, Structures of Programming Languages*

## EXPERIENCE

### Web Developer

August 2021 – May 2024

*George Fox University*

*Newberg, OR*

- Spearheaded the implementation of 20+ data pipelines in Node.js, achieving a dramatic 99% reduction in manual build time and accelerating development workflows, optimizing operational efficiency and content delivery speed
- Revamped 10% of content pages with HTML and CSS and support the retirement effort of 1,000+ legacy pages
- Produced 100+ web pages with JavaScript, resulting in a 70% enhancement in stakeholder engagement

### Software Engineer Intern

June 2023 – August 2023

*Liminal Insights*

*Emeryville, CA*

- Architected a feature flag web platform using React.js and Flask with database connectivity, reducing deployment time of the flagship products with its 7+ software configurations by 99% (e.g., developer mode, fake hardware)
- Optimized battery cell testing process efficiency by leveraging real-time data processing and a pub/sub system architecture design, offloading 100+ synchronous debugging log messages per minute
- Refactored the OPC to Redis communication mechanism to resolve race conditions, leading to a 20% increase in improved stability of the flagship product and its network connectivity with hardware field devices (e.g., PLC)

### Software Engineer Intern

June 2022 – August 2022

*Recidiviz*

*San Francisco, CA*

- Pioneered a command module with 20+ API scripts that perform comprehensive login and IAM group policy audits and reports elevated privileges in 17 B2B platforms, reducing manual verification time by 99%
- Led the 90% increase of 12 security controls with cloud log-based metrics to alert the security team of all cloud events during staging deployment to production
- 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
- Built automation scripts utilizing pub/sub mechanisms that boosted the transparency of alerts across disparate cloud environments by 90%, implementing 20+ hardening measures by national standards

### Security Operations Analyst Intern

May 2021 – August 2021

*Northwest Natural Gas Utility Company*

*Portland, OR*

- Led a security inventory documentation effort of 20+ in-house hardware and external software servers that maintain the infrastructure for the organization
- Developed 6 SQL queries, resulting in a 50% increase in identifying suspicious login activity in privileged systems
- Created six interactive dashboards and real-time alerts, leading to a 10% reduction in incident response time

### Gameplay Engineer

June 2020 – December 2020

*Gameheads*

*Oakland, CA*

- Led 10+ user interface flows and internal backend connectivity services for 3+ core game mechanics
- Orchestrated project management of 120+ pull requests, contributing to a 95% achievement rate per sprint
- Performed 20+ test verifications for 5+ game features and engaged in A/B testing with 23+ stakeholders

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, SQL, C/C++, C#, Elixir, Scala, Java, Bash, Haskell

**Frameworks:** React, Node, Vue.js, Flask, JUnit, Apache Velocity, GraphQL, NoSQL

**Developer Tools:** REST API, CI/CD, Git, Linux, Redis, Docker, Postgres, MySQL, SQLite, Google Cloud, OPC-UA

**Libraries:** Bootstrap, Material-UI, Pandas, NumPy, Matplotlib, Seaborn