

Eric Wei

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Information School, University of Washington, Seattle, WA

Graduation: June 2019

Degree Option: Information Architecture; Information Assurance and Cyber Security

Technical Skills: Python, Go, SQL/MySQL, R, Java, JavaScript (React, Node.js), Flask, Cypher, Penetration Testing

Work Experience

Pacific Northwest Seismic Network & SIRRUS7

Jan 2019 - Jul 2019

System Developer Capstone

- Created a proof of concept IOT earthquake warning system connected to earthquake monitoring services in Washington State to warn users of imminent earthquakes approaching their location
- Custom built backend using GO, AWS, RabbitMQ, and Python with industry security practices
- Measured and reported key processing and delivery metrics to evaluate the viability of our solution
- Project passed on to the City of Seattle, partnered with Seattle Lights, Twitter, Amazon, and SIRRUS7 in developing an earthquake warning system for Washington

SIRRUS7, Seattle WA

Apr 2018 - Oct 2018

Client-side Web Developer

- Design and create the client-side functionality for an online web application that allows companies and developers to integrate customer feedback into the project development lifecycle
- Build using Go, Node.js and React on the Material UI framework

MOD Pizza LLC, Seattle WA

Jan 2018 - Mar 2018

SIRRUS7 Data Management Consultant

- Outlined and coded the entire business data lineage from point of sale to Power BI dashboards
- Used Neo4j cypher queries to create a graphical representation of all data dependencies and operations
- Created a data dictionary for baseline comparisons with an alternate data management platform
- Provided solutions for improving efficiency and data analysis

Holland America Group, Seattle, WA

Jul 2017 – Sep 2017

Data Analytics Internship

- Organized customer demographic and purchasing data using R to uncover customer purchasing trends and assist in developing future consumer marketing strategies
- Developed an interactive dashboard through R Shiny to show KPIs and generate custom customer purchase trend reports for managers across the marketing and financial departments
- Worked closely with a statistic professional in coding and displaying complex statistical models in R

Relevant Coursework

Advanced Information Assurance and Cybersecurity

- Created advanced payloads in XSS, CSRF, SQL injection and clickjacking against various types of mitigations
- Outlined best practices for input sanitization and site security for common platforms
- Conducted a full penetration test on a locally hosted vulnerable banking web application

Client-Side/Server-Side Development

- Introduces client-side and server-side web development programming, services, tools, protocols, best practices and techniques for implementing data-driven and scalable web applications
- Delves into the relationships between topics such as human-centered design, information architecture, databases and security

Algorithms and Computational Complexity

- Designed algorithms using divide and conquer, dynamic programming, and branch and bound
- Solved modeling problems as instances of binary search and network flow
- Prerequisite knowledge of fundamental algorithms; linked lists, stacks, queues, directed graphs; tree representations and traversals; searching (hashing, binary search trees, multiway trees)