Serena Zeng

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EDUCATION

- **Northeastern University** — Boston, MA
  Master in Computer Science -DS — *Jan 2022 - Dec 2023*

- **University of Washington** — Seattle, WA
  Bachelor in Mathematics, Psychology — *Sep 2016 - June 2021*

SKILLS SUMMARY

- **Languages**:   Python, PHP, C++, JavaScript, SQL, Bash, JAVA
- **Tools**:   Kubernetes, Docker, GIT, PostgreSQL, MySQL, SQLite, Apache Tomcat
- **related courses**: operating system, distributed system, Machine Learning, Web programming, database

EXPERIENCE

- **Amazon** — Seattle
  Incoming Software development intern — *May 2022 - Aug 2022*

- **Busy Squirrels** — Remote
  Software development intern — *March 2021 - Aug 2021*
  - website and Chrome extension development and maintenance using REACT.JS and AWS Lambda and Python
  - Fix issues regarding chrome extension and maintain the data using Lambda function
  - Designed UX/UI research and perform usability test to improve and implement features

- **Research analyst** — Seattle
  Flaherty Lab (Part-time) — *Jan 2020 – Jan 2021*
  - Worked with data regarding substance abuse and other health and social-related issues
  - Extracted data online, cleaned data for further data visualization and modeling using Python and R

- **ML Research analyst** — Seattle
  Lab with Fred Huntch Cancer Research — *June 2019 – Aug. 2019*
  - Cleaned and Visualized data in Python to identify factors that affect the OS and PFS of cancer patientss
  - Extracted data from online database using SQL and helped find the best model for finding the best treatment for cancer patients using Python machine learning library

- **Research Assistant** — Seattle
  UW Cognition Cortical Dynamic Lab — *Sep 2017 – Sep 2018*
  - Managed and clean the study data to find a model's accuracy of using only EEG resting state and acting state data to predict people's ability to learn a new language and their reading ability
  - Stored and verify the accuracy of collected survey data, cleaned data and create reports to find insights from the dataset using Python and also simple Excel functions

PROJECTS

- **Sephora Price Compare Engine (Search Engine, Web Crawlers)**: built an webscraper using Python Selenium and Web Driver to scrape items from a dynamic website, store item image, price and other information into SQL database and csv file. SQL table and csv file are scheduled to automatically update everyday, and to generate any price drops. & mid scale enterprises. Tech: Python, Selenium AWS, SQL

- **Automatic check writer**: an app that use api from onlineCheckWriter to automatically write check, delete Check, and get all check, payee and bank account information. This is useful for small business owner that requires a lot of manual check writer. Technology used: Java, RestAPI, Postman

- **Quiz taking System**: build a quiz system for users to take types of quiz and managers to manage the quiz and see quiz results using mySQL, Java, JDBC, Apache tomcat, and Java Servlet

- **CRUD Server and Client**: Created a multi-threaded and distributed CRUD app using different ways, including TCP and UDP network, and RPC. Tech: Java, Docker