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EDUCATION

University of Washington, Seattle WA
B.S. Computer Science & B.S. Informatics
Graduated: March 2019
GPA: 3.7

University of Washington, Seattle WA
M.S. Computer Science
Expected Graduation: June 2020
GPA: 3.7

EXPERIENCE

Kernel Labs   *June 2018 – Sept 2018*
Software Development Intern
- Wrote Python class for generating sentences based on Twitter data, utilizing Markov chains to emulate target sentence structure, with or without starting context.
- Wrote an Alexa skill utilizing DynamoDB for session storage and a NodeJS based AWS Lambda function, connected to Amazon API gateway for responding to HTTP requests.
- Back-end development on a Symfony-based system in the lobbying space, including schema modifications in MariaDB, business logic modifications in PHP, and deployment on AWS Ubuntu servers running NGINX.

University of Washington – iSchool DataLab   *June 2018 – present*
Research Assistant
- Developed extensive web scraping infrastructure in Python to extract article-level meta-data of over 20,000 articles in over 20 potentially predatory journals.
- Created data visualizations in matplotlib and ggplot2, bash scripts for subsetting data, and pandas data analysis to analyze the topics of conversation in Twitter datasets of over 10's of 1000's of tweets.
- Presented my work at the UW Undergraduate Research Symposium and departmental capstone events.

University of Washington – Computer Science   *Dec 2017 – Jun 2019*
Teaching Assistant for Programming Courses (CSE 143, 341, 351, 333)
- Aided students in debugging assignments that covered topics in topics such as Cache Geometries, C Data structures, C++ classes and inheritance, and other Systems Programming concepts.
- Collaborated with fellow TAs and course instructor in creating assignment rubrics and quiz section materials on topics such as Functional, Object-Oriented, and Logic programing in Racket, Haskell, Ruby, and Prolog.
- Provided feedback on both functionality and style of Java assignments covering CS2 concepts.

University of Washington – Human Computer Interactions Lab   *Jan 2017 – Aug 2017*
Research Assistant
- Developed an accessible web study to investigate listening speeds for screen reader users and non-screen reader users that was deployed as a MariaDB backed PHP application on the LabInTheWild platform.
- Improved existing front-end elements and data storage by conducting 4 user interviews, understanding common pain points, as well as analyzing and visualizing question response accuracy in R.
- Discussed experimental design and user experience with faculty advisor and grad student mentor.

DefenseStorm   *Sept 2016 – Jan 2017*
Web Developer
- Contributed to the design and implementation of a Google Sheets backed React application for storing, searching, and filtering Cybersecurity statistics.
- Wrote SQL stored procedures for populating and querying an MS SQL Server database instance.
- Took on the role of project lead in a four-person team, organizing client and team meetings to discuss deliverables, feature changes, and usability.

Big Fish Games   *July 2016 – Sept 2016*
Information Systems Consultant
- Proposed improvements to an MS Sharepoint and MS SQL server backed Operations and Business Intelligence data management system, presenting to representatives in Operations, BI, and Management.
- Constructed SQL system-table queries to examine dependencies within the Business Intelligence teams' database tables and stored procedures.
- Took on the role of project lead, managing project status, organizing meetings, and communicating with clients.

VOLUNTEERING

Northwest Parkinsons' Foundation   *June 2015 – Sept 2015*
Event Programming Intern
- Curated contact information for a provider network of over 200 medical professionals and caregivers.