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EMPLOYMENT

Software Engineer **Amazon** **Oct 2019 - Present**

- Implemented service to reduce storage costs by cleaning up stale data utilizing AWS dynamodb, kinesis and lambda. Reduced overall storage costs by 18%. Built a permissions system that hides confidential metrics from unqualified users. Reduced load on our distributed sql engine by prioritizing reports and implementing more efficient SQL generation which resulted in a 40% decrease in report generation/re-generation time.

Software Engineering Intern **Amazon** **Summer 2019**

- Automating location creation for new Amazon locations and consolidated all steps into a web interface with validation methods to reduce human error
- Added ability for business users to provide high level description of business logic which can be translated into filters and/or rules to identify new sites

Software Engineering Intern **Amazon** **Summer 2018**

- Built a simulation system to simulate the effects of new rules across Amazon's vendor catalog. Also built an interface to promote these rules to the staging and production environments once simulations were completed and the developer had verified the results

Researcher **Kihara Bioinformatics Laboratory** **Aug 2017 – May 2019**

- Currently working on a tool to identify proteins from a FASTA sequence given a set of gene ontology terms.
- Implementing reinforcement learning model inspired by AlphaGo to predict the folded structure of a protein

Software Engineering Intern **Blackhawk Network** **May 2017 – Aug 2017**

- Implemented Facebook Messenger extension to allow users to purchase and send gift cards
- Integrated with Facebook M to auto-suggest sending a gift card based on certain keywords

EDUCATION

Los Angeles, CA **University of Southern California** **2019 – 2020**

- **M.S in Computer Science (Data Science)**
- **Coursework:** Deep Learning and its Applications, Database Systems, Natural Dialogue Systems

West Lafayette, IN **Purdue University** **2016 – 2019**

- **B.S in Computer Science with Minor in Statistics**
- **Coursework:** Introduction to Artificial Intelligence, Relational Database Systems, Analysis of Algorithms; Data Mining and Machine Learning; Information Systems; Data Structures and Algorithms; Systems Programming; Computer Architecture; Discrete Mathematics; Design of Experiments; Applied Regression Analysis

PUBLICATIONS

- **Identification of Moonlighting Proteins Using Text Mining (Published on 10/01/18)**
Text mining genome scale datasets to classify moonlighting proteins

ADDITIONAL EXPERIENCE AND AWARDS

- **CS251 Teaching Assistant (Purdue University) (Aug 2018 – Jan 2019):** Helped teach the data structures class and also created projects to assist with student learning
- **Dean's List (Purdue University):** Given to those who have a GPA higher than a 3.5.

Languages and Technologies

- **Languages:** Python; C; Java; C++; Bash scripting; R; SAS; Assembly; PHP; JavaScript; PL/SQL; HTML; CSS
- **Technologies:** Docker; Keras; PyTorch; Apache Redis; Apache Hive; MongoDB; DynamoDB; MySQL; Kubernetes; Git; Spring; Amazon Web Services; Unix; Node.js; Flask;