(765)337-8399

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EDUCATION

### Carnegie Mellon University, School of Computer Science

Pittsburgh, PA

Master of Information Technology Strategy Program

Aug. 2018 - Dec. 2019(Expected)

GPA: 3.5/4.0

Core Coursework: Introduction to Machine Learning, Distributed Systems, Search Engines

#### Purdue University, School of Science

West Lafayette, IN

Bachelor of Science in Computer Science; Minor: Mathematics

Aug. 2014 - May. 2018

GPA: 3.83/4.0

SKILLS

Proficient: <u>Java, C, Python, SQL</u> Experienced: <u>JavaScript, Express, Assembly Language</u> Familiar with the SCRUM Software development framework

EXPERIENCE

Highmark Ticket Platforms, Carnegie Mellon University & Highmark Inc. Pittsburgh, PA Scrum Master, Product Owner, Front-end Developer Jan. 2019 - Aug. 2019

Two websites for Highmark Inc. to enable automatic ticket generation and continuous monitoring of software security programs.

- Lead a team of 4 to design the architectures for the websites.
- Designed and built the ReactJS front-end and the restfulAPI to communicate with back-end.
- Worked as <u>Scrum Master</u> for the first half of the project and <u>Product Owner</u> for the rest of the project.
- Learned, practiced and adjusted Scrum Software Development cycle to fit our team.

# Kihara Bioinformatics Laboratory, Purdue University

West Lafayette, IN Oct. 2017 - Jul. 2019

Research Assistant

Imported MAINMAST plugin to Chimera for use in Bioinformatics Lab in Purdue University.

- Self-learned the plugin implementation technics for Chimera, a molecular modeling system.
- Developed a MAINMAST plugin GUI using Python Tkinter.
- Implemented the plugin to achieve full functionality of performing MAINMAST modeling methods.
- Delivered a poster presentation at Purdue University Bioinformatics Mini-symposium and earned the reward of "The Best Undergraduate Poster Presentation".

SELECTED
COURSE
PROJECTS

#### Distributed Systems, Carnegie Mellon University

Pittsburgh, PA - Spring 2019

- **File-Caching Proxy:** Designed and implemented a server with LRU file caching that allows remote clients to perform file read, modification, and deletion. The proxy ensures one-copy semantic.
- Scalable Web Service: Designed and implemented a 4-tier web server that autoscales according to the observed load.
- Two-phase Commit System: Designed and implemented a system with distributed transaction using two-phase commit. The system handles messages lost or delay and utilizes logging to persistent storage for failure recovery.

#### Text Based Search Engine, Carnegie Mellon University

Pittsburgh, PA - Spring 2019

A QryEval Search Engine on a large scale of documents from gov2 and ClueWeb09 database. Evaluated each model's performance, analyzed and explored ways for improvements under different circumstances.

- Implemented retrieval models including Ranked/Unranked Boolean, BM25, Indri, LeToR etc.
- Trained a SVM classifier to rank documents, learning from features like tf-idf, PageRank etc.
- Supports Query Expansion and Diversification capabilities.
- Evaluated and analyzed different models using Metrics, including MAP, P@n, P-IA@n,  $\alpha$ NDCG@n

## E-Commerce System, Carnegie Mellon University

Pittsburgh, PA - Summer 2019

A e-commerce back-end and database that minimizes the impact of increased demand and delivers reliable service consistently.

- Designed and built the back-end and database using NodeJS, Express Framework and MySQL.
- Deployed the System on <u>Amazon Web Services</u>(AWS), utilized EC2, RDS and Classic Load Balancer to ensure scalability and availability.