

Chu Wu

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EDUCATION

Bachelor of Management

Nankai University, Tianjin, China

Major in Management Science and Engineering; Specialization in Electronic Commerce

June 2017

3.57/4.00

Master of Information Systems Management

Carnegie Mellon University, Pittsburgh, US

May 2019

3.66/4.33

TECHNICAL SKILLS

- Java, Python, JavaScript/JQuery, R, HTML, CSS, Bootstrap
- AWS, Azure, MySQL, HBase, MongoDB, MapReduce, Sparks

ACADEMIC PROJECTS

Twitter Analytics Web Service, Carnegie Mellon University

Feb 2018-May 2018

- Designed, developed, and optimized a multi-tier web service that can handle a high volume of RESTful HTTP requests (over tens of thousands of requests per second)
- Used AWS Elastic MapReduce (EMR) to implement Extract, Transform and Load (ETL) on a large Twitter data set (~ 1 TB) and loaded over 200 million Twitter records into MySQL and HBase systems as the backend servers. Applied replication and sharding in MySQL database design to improve performance
- Built the front-end server with Undertow and distributed incoming requests across multiple servers with AWS Elastic Load Balancer (ELB). Applied LRU cache to reduce the pressure of the backend servers

Face Recognition Information System in JAVA, Carnegie Mellon University

Oct 2017-Nov 2017

- Developed a biometric user identification system using a web camera to identify the student's faces and display a dashboard of information about the student to the receptionist. The system can also alert the reception to strangers
- Used OpenCV library to realize face detection and recognition. The system supported simultaneous multiple face detection and recognition
- Used JavaFX Scene Builder to design system's user interface and used CSS to embellish the application
- Maintained Students' basic details and visiting records in an embedded Derby database. The system can generate analytic reports using these data for the admin staff

Meeting Room Website Development, Carnegie Mellon University

Aug 2018-Dec 2018

- Designed and developed a website with Django to let users share a meeting pad and chat with each other
- Used WebSocket to realize the chat interface and the real-time co-editing of the meeting pad
- Utilized Django's authentication, email, media, database model and form model features
- Applied Bootstrap to create a unified style across pages and make the website responsive and mobile

Eaton Capstone Project, Tech leader, Carnegie Mellon University

Jan 2019-May 2019

The goal of Eaton Project was to build score models for Eaton Corporation to target enterprise customers

- Designed and implemented a desktop application in Python to allow Eaton to share confidential data. The program accepts CSV files and will enable Eaton to encrypt or decrypt one or more columns with a two-phase authentication
- Developed a sentiment scoring model to help Eaton improve prospecting and targeting of valuable customers within 3691 companies. Retrieved latest business articles in JSON from AYLIEN News API. Applied feature engineering on relevant content and calculated final sentiment scores

PROFESSIONAL EXPERIENCES

Cloud Computing Intern, Central Software Institute, Huawei, China.

May 2018-Aug 2018

- Assisted cloud computing researchers in drafting a new network protocol controlled only by a single host
- Designed information frames to enable transmission rate adjustment and multipath packet arrangement
- Collected and analyzed simulation data to improve the model and contributed code to the codebase

Cyber Security Intern, Beijing Leadsec Technology, China

Jan 2017-Mar 2017

- Worked with security professionals to install firewalls for the network devices of 2022 Beijing Winter Olympics
- Used command line tools to update and debug cyber security software for clients in Beijing