

Chu Wu

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EDUCATION

Master of Information Systems Management

Carnegie Mellon University, Pittsburgh, US

May 2019

3.66/4.33

Bachelor of Management - Management Science and Engineering

Nankai University, Tianjin, China

June 2017

3.57/4.00

TECHNICAL SKILLS

- Programming Languages: Java, Python, JavaScript/JQuery, HTML, CSS/Bootstrap
- Tools: GCP, AWS, Azure, Docker, Kubernetes, MySQL, MongoDB, MapReduce, Sparks

PROFESSIONAL EXPERIENCE

Cloud Computing Intern, Central Software Institute, Huawei, China

May 2018-Aug 2018

- Assisted cloud computing researchers in designing a new transport layer protocol that refers to the Google QUIC
- Designed the structure of a control frame to realize multipath packet scheduling and achieve transmission rate adjustment for different types of data sources. Implemented the prototype and simulated its behaviors
- Recorded the simulation process and submitted the testing code and specification documents

Cyber Security Intern, Beijing Leadsec Technology, China

Jan 2017-Mar 2017

- Worked with security engineers to deploy firewalls for the organizing committee of the 2022 Olympics Winter Games
- Configured and updated cybersecurity software for the government offices of Beijing by using command-line tools

ACADEMIC PROJECTS

Eaton Capstone Project, Tech leader, *Carnegie Mellon University*

Jan 2019-May 2019

The goal was to help the company identify its target corporate customers by building scoring models

- Designed and implemented a wxPython desktop application to anonymize confidential customer data; this program accepted CSV files and enabled encryption and decryption of one or more columns with a two-phase authentication
- Developed a sentiment scoring model to help the company identify its prospective and target 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

Chat Room Website Development, *Carnegie Mellon University*

Aug 2018-Dec 2018

- Designed and developed a chat room with a shared notepad by using WebSockets and Django Channels
- Utilized Django's built-in modules, including user, email, authentication, URL, forms, and database, to implement the supporting functions of the chat room
- Added code syntax highlighting to the notepad with Prism and made the web pages unified, responsive and mobile with Bootstrap

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)

Face Recognition Desktop Application in JAVA, *Carnegie Mellon University*

Oct 2017-Nov 2017

- Developed a biometric user identification application that can recognize a student's face in a webcam video stream and display the student's information on a dashboard for the receptionist
- Performed simultaneous multiple faces detection and recognition with OpenCV library
- Designed and created the layout with JavaFX Scene Builder and styled the user interface with CSS
- Generated a visualized analytic report of visiting history from data stored in an embedded Derby database