Shuai Huang

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EDUCATION

Carnegie Mellon University, Silicon Valley

12/2021

Master of Science in Electrical and Computer Engineering

University of California, San Diego

03/2019

Bachelor of Science in Computer Science

PROFESSIONAL EXPERIENCE

Snap Inc. Remote - team in Los Angeles, CA

06/2021 - 08/2021

Software Engineer Intern

working on Airflow pipelines (Python), and technologies include Kubernetes, BigOuery, MySOL, GCP

Hive AI San Francisco, CA

05/2019 - 02/2020

- Software Engineer Intern

 Designed and automated data pipeline in Node
 - Designed and automated data pipeline in NodeJS with RabbitMQ, and PostgreSQL to flow tasks for Data Labeling projects, and to integrate ML models into clients. Used AWS S3 to store more than 100 GB data, and Jenkins and Marathon to increase concurrency and help speed up the process by more than 5X.
 - Scrapping in NodeJS more than 1,000,000-hour video footages from YouTube and more than 100,000 photos from social media through tools such as youtube-dl, and cheerio to train Labeling and Speech Recognition models.

Morgan Stanley Shanghai, China

07/2018 - 09/2018

- Software Engineering Summer Analyst
 - Built Backend System of an order tracing tool in **Python** for Listed Sales & Trading Team.
 - Developed visual cash order flow (a network of tree structured connections) to save more than 2 hours daily locating issues if an order is not sent to the exchange.
 - Improved performance by 2X by utilizing a cache that maps connections to processes.

PROJECT EXPERIENCE

CORBA Fault-Tolerant Distributed System

06/2020 - 08/2020

Distributed System Course Project at Carnegie Mellon University

- Replicated servers both passively and actively in **Java** with **Spring Boot** to achieve fault masking and maintain
 consistency across servers deployed on separate **EC2** instances.
- Bridged communications through **RESTful** requests among Replication Manager, Detectors, and Servers to perform operations such as checkpointing, membership update, and detection.

Mini-Ins

04/2020 - 05/2020

Personal Project that Mimics Instagram's Backend Features Using **Spring Boot**

Link: https://github.com/omishuai/miniIns

- Allowed services to interact via RESTful APIs, such as POST and GET, and exchanged photo, message, comments and user information through Spring Data JPA and MySQL to store and retrieve.
- Created a messaging system through **WebSocket** and locking mechanism to allow user intercommunication.
- Customized Authentication and Authorization in Spring Security Filters and secured user interaction with backend through **JSON Web Token** (**JWT**).
- Tested with **Unit Testing (Junit)**, and **Acceptance Testing (Cucumber)**. Also, for testing purpose, replaced MySQL with **In-Memory Database H2**, and sent HTTP requests with **RestTemplate**.

ChatApp DAO

03/2017 - 06/2017

Collaborative Project that Builds a ChatApp through CodeU Program at Google

• Implemented data access and validation component to MySOL using Java and JDBC.

SKILLS

Programming Languages: Java, SQL, NodeJS, Python

Database & Cloud Technologies: MySQL, MongoDB, PostgreSQL, H2, RabbitMQ, RESTful, AWS (EC2, S3), Docker, Kubernetes, BigQuery, Airflow

Frameworks and Services: Spring Boot, ExpressJS, RESTful

Development Solutions: JIRA, Git, Perforce

Experienced Areas: Distributed System, Backend Development, Databases, Agile Development