Tom Cai

sihantom@wustl.edu | 614-822-5222 | LinkedIn: SihanLinkedin | PersonPortfolio : SihanPortfolio | Github: SihanCai 1 Brookings Drive, Saint Louis, MO

SUMMARY

• Objective: 2020 Summer Software Developer Internship

Bachelor degree candidate has a wide range of internship experience and project experience, including Full Stack Development.

EDUCATION

Denison University

Washington University in St.Louis

Missouri, USA

Bachelor of Science in Computer Science; GPA: 3.5/4.0

Expected May 2021
Ohio, USA

Bachelor of Art in Mathematics; GPA: 3.5/4.0

August 2016 - June 2019

SKILLS

• Languages: Java, HTML5/CSS3, Python, JavaScript, PHP, SQL

Database: MySQL, MongoDB, Redis

• Tools: Kubernetes, Docker, Nginx, AWS, GIT, Elastic Search, Restful API, Google FileBase, Webpack

Test: JUnit, Mockito

• Framework: SpingBoot/Spring MVC/Spring, Spring Data JPA, Spring Security, Hibernate, ReactJS, Vue, jQuery, HBase, JDBC

EMPLOYMENT EXPERIENCE

Unibit Inc: Similiar to Yahoo finance

Allston, MA

Full Stack Software Intern

May 2019 - August 2019

- · Unibit API: Java-based platform to offer standardized financial data and information
 - * Implemented web application based on **SpringBoot** to provide thousands of different format finance data including JSON and EXCEL
 - * Utilized Hibernate, Spring Data JPA to provide normalization in MySQL, which contains more than 500K records
 - Decomposed tables in third normal form (3NF), reducing data size to 10%, optimizing complex query performance, saved 21% query time
 - * Accomplished cache with Redis, increasing performance and reducing response time by 90%
 - * Automated system deployment with Docker, Nginx on AWS EC2 server and AWC ELB as load balancer
 - * Cooperated with Product Manager to compose Unibit API documentation for over 1000 paid customers, staff from **Accenture** and **Salesforce**
- o Data Terminal: Client-side PHP-based platform to get more comprehensive and commercially valuable data
 - * Developed intelligent search engine using Elastic Search Cluster server, minimizing time of searching finance data up to 55%
 - st Used **Kubernetes** for event analysis and created **MongoDB** shared cluster for storage
 - * Researched multiple recommendation algorithms and combined **machine learning**, **deep learning** to oversee the relationship between stock price and news so that each paid customer can minimize investment risk, saving stocking cost for over **10K\$**

Huanshitong Construction Machinery Company

Software Engineer Intern

Baotou, Inner Mongolia

July 2018 - September 2018

- o E-Inventory Management System: Client-side PHP-based platform to get more comprehensive and commercially valuable data
 - * Developed intelligent search engine using Elastic Search Cluster server, minimizing time of searching finance data up to 55%
 - * Used **Kubernetes** for event analysis and created **MongoDB** shared cluster for storage
 - * Researched multiple recommendation algorithms and combined **machine learning**, **deep learning** to oversee the relationship between stock price and news so that each paid customer can minimize investment risk, saving stocking cost for over **10K\$**

OSSCube Software Engineer Intern New Delhi, India

May 2015 - Aug 2015

o Squeek Twitter iOS: Designed and developed Twitter client using Fabric SDK

PROJECTS

- BootDo Background Management System: Java-based Background Management system, including System modulo, Office modulo, blog modulo, and department modulo
 - o Integrated a dashboard using React, D3 and Ant Design to visualize the sales of IPhone product in China
 - o Fetched the blog and office data from Alibaba API
 - o Optimized the user experience by adding style bar to alter the style of website, using jQuery
 - Developed a **Spring Web Flow** to support item ordering
 - Instituted **Spring MVC** backend part of different modulo functions, using **SpringBoot**
 - o Utilized Mybatis and Hibernate to provide better support of database operations