Tom Cai

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SUMMARY

- **Objective**: 2020 Summer Software Developer Internship
Background: Bachelor degree candidate has a wide range of internship experience and project experience, including Full Stack Development, web application development, strong programming skills in **Java**, **HTML5/CSS3**, **SQL**, **Python**, **JavaScript**, familiar with **Git**, **Docker**, **Restful API**, **AWS**, **MongoDB**, **SpringBoot**, **Spring Data JPA**, **Hibernate**, **Webpack**, **ReactJS**, **Vue**, **jQuery**, **Bootstrap**,**Google FileBase**, **Junit**, **Mockito**

EMPLOYMENT EXPERIENCE AND RESEARCH EXPERIENCE

- **Unibit Inc: finance data company** — Allston, MA
  Full Stack Software Intern — *May 2019 - August 2019*
  - **Unibit API** : **platform to offer uniform and standardized financial data throughout** Implemented a web application based on **Spring MVC** to support stock search and listing. Used **Spring REST API** to handle HTTP requests and responses. Utilized **Hibernate**, **Spring Data JPA** to provide better support of database operations in **MySQL**, which contains more than **300K** records. Deployed to **Amazon EC2** server using **Docker** and performed load test cases with **JUnit**, **Mockito**.
  - **API documentation**: Cooperated with Product Manager to compose Unibit API documentation for over 1000 customers, save **5**% time.
  - **Data Terminal**: **User friendly platform to get more comprehensive and powerful data Researched multiple recommendation algorithm** (e.g **content-based** recommendation) and evaluate their performance (precision vs recall vs cost).
  - **Company Website**: Collaborated with UI designers and other developers to build web page with user-friendly interactions and experiences, using **Vue** framework. Used **Google FileBase** to store and manage images and API documentation.
  - **Software Development Kit**: Accomplished client-side implementation of the UniBit API, including python functions for each available API call.

- **Huanshitong Construction Machinery Company** — Baotou, Inner Mongolia
  Full Stack Software Intern — *July 2018 - September 2018*
  - **E-Invertory Management System**: Implemented Customer and Commodity Management services, saving **30 %** time-cost from traditional management system and creating extra **3000**$ profit. Administrated security workflow via in-memory and JDBC authentication provided by **Spring Security**.

- **RESOLVE Software Research Group** — Greenville, SC
  Research Assistant — *May 2018 - July 2018*
  - **Tutorial Web**: Applied **Git** to cooperate with 2phd computer science students, overseeing an interactive design of website to search lesson documents and compile RESOLVE programming homework(**HTML5**, **CSS3**, **Bootstrap**). Utilized **Jekyll** generating liquid model to efficiently import lesson documents.

PROJECTS EXPERIENCE

- **BootDo Background Management System**: **Java** based Background Management system, including System modulo, Office modulo, blog modulo, and department modulo. Integrated a dashboard using **React**, **D3** and **Ant Design** to visualize the sales of iphone product in China. Fetched the blog and office data from Alibaba API. 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**. Utilized **Mybatis** and **Hibernate** to provide better support of database operations.

EDUCATION

- **Washington University in St.Louis : top 20 New Ivy** — Missouri, USA
  Bachelor of Science in Computer Science; — *Expected Graduation : May 2021*

- **Denison University** — Ohio, USA
  Bachelor of Art in Mathematics; — *August 2016 – June 2019*