

# SihanCai

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## EDUCATION

Washington University in St. Louis, St. Louis, MO  
Computer Science

Expected Graduation : 2022

Denison University, Granville, Ohio  
Bachelor of Arts, Mathematics

August 2016 – June 2019

## SKILLS

**Coding Languages :** Java, Python 2/3, HTML5/CSS3, JavaScript, SQL | **Databases :** MySQL, MongoDB, Redis | **Frameworks :** Spring, SpringBoot, Spring MVC, Spring Data JPA, Hibernate, Mybatis, Restful API, Bootstrap, Elasticsearch | **Management :** Git, Docker, JUnit, JMeter, AWS, Google Cloud, Firebase

## EXPERIENCE

**UniBit Inc**, Boston, the United States

May 2019 – August 2019

Full Stack Software Intern

*Unibit API and Data Terminal*

- Developed Real-time Stock Price and Historical Stock Price APIs, covering real-time and historical price quote over 63000 companies, ETFs and Mutual Funds, traded in major exchanges around world, used by more than 1000 users
- Customized updated every 5 minute Forex API, including real time currency data endpoint for over 20000 currency combination
- Incorporated Company Financials of Data Terminal, returning over 3500 companies traded in major U.S exchanges including NASDAQ, AMEX, NYSE and ARCA, utilized by accenture and salesforce
- Cooperated with Product Manager to compose Unibit API documentation for over 1000 customers, saving 5% time
- Revitalized TDD with Junit and Mockito to keep Spring Framework unit tests light and fast

**Huanshitong Construction Machinery Company**, Inner Mongolia, China

July 2018 – September 2018

Full Stack Software Intern

*E-Inventory Management System*

- Implemented Customer and Commodity Management services, saving 30% time-cost from traditional management system and creating extra 3000\$ profit
- Designed 500 simulation data in MySQL to ensure smooth running of the Inventory Management System and communication with MyBatis configuration
- Finished 50 Tested cases to trial accuracy of system, using Unit Testing with JUnit and Tomcat Embedded Web Server

*Company Website*

- Collaborated with UI designers to build a website with user-friendly interactions and experiences

**Clemson University**, Greenville, South Carolina

May 2018 – July 2018

Research Assistant, Department of Computer Science

Advised by Dr. MuraliSitaraman, Resolve Group Manger

- Applied Git to cooperate with 2 phd computer students, overseeing design of time-saving websites through Jekyll, HTML5, CSS3 and Bootstrap, resulting in an 8% increase in classroom educational instruction time
- Employed Jekyll generating liquid model to efficiently import over 100 lesson documents

**Denison University**, Granville, Ohio

May 2017 – July 2017

Research Assistant, Computer Science Department

- Learned RESOLVE, a unique integrated programming environment including a built-in specific language, compiler, verifier and prover under advisement of Dr. Joan Krone, Computer Science Professor
- Read more than 50 reference articles about abstract mathematical theory and RESOLVE coding in the Resolve Software Research Group IDE and contributed to site providing learning materials for students at Clemson University
- Presented research results at an all campus symposium and published results in local newspaper