Sihan Cai

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EDUCATION

Denison University, Granville, Ohio   August 2016 – June 2019
Bachelor of Arts, Mathematics

Washington University in St. Louis, St. Louis, MO   Expected Graduation:2023
Computer Science

SKILLS

Coding Languages: Java, Python 2/3, HTML5/CSS, Bootstrap, JavaScript, SQL| **Databases:** MySQL, DynamoDB, MongoDB |
Frameworks: Spring, Spring MVC, Mybatis, Hibernate, SpringBoot, Spring Data JPA, Restful API, | **Management**: Git, Docker,JUnit,
AWS, API gateway, AWS Lambda, EC2, Cognito

EXPERIENCE

UniBit Inc, Boston, the United States   December 2018 – February 2019
Full Stack Software Intern
Finance Product
- Developed APIs using Java Spring Boot to store, retrieve and return 3000000 Crypto Article News information to front end in JSON format
- Converted Article Sum services and Crypto News services running on local server to dockerized container running on EC2 backend server
- Achieved pipeline streamed 1000000 Holders data to DynamoDB through API POST/GET methods, setting up gateway and sending data to Redshift Kinesis delivery stream and Amazon S3
- Completed 100 test cases using Junit Test and Integration Test, leveraged jmeter to test back-end code
- Accomplished Back-end Document for 3 new Interns to quickly understand whole finance product, saving 5% time

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
- Enhanced Investors experience by overhauling image loading system and creating extra 2000$ investment
- Processed 60 Ajax requests to backend REST API developed by Java

Clemson University, Greenville, South Carolina   May 2018 – July 2018
Research Assistant, Department of Computer Science
Advised by Dr. Murali Sitaraman, 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 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