

Jiayue Zhou

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EDUCATION

Virginia Polytechnic Institute and State University (Virginia Tech)

Blacksburg, VA

Master of Engineering in Computer Science and Application; GPA: 3.95

Aug 2021 - Current(Expected May 2023)

Courses: Web Application Development, Advanced Machine Learning, Blockchain Technologies, Mobile Development(Android)

Hangzhou Dianzi University (HDU)

Hangzhou, China

Bachelor of Engineering in Computer Science; GPA: 3.59

Sept 2016 - Jun 2020

Membership: Excellent Honors College **Merit-based Scholarships:** 2nd Class (10%), 3rd Class (15%)

SKILLS

- Languages: **Java**, Python, JavaScript, C++, Solidity Databases : **MySQL**, Oracle, SQL Server
- Frameworks & Tools: **Vue.js**, HTML, CSS, **React.js**, Next.js, TypeScript, jQuery, Node.js, Express.js
- Experience: Software Development, Web Development, Database designing, Machine Learning, Blockchain Development

INDUSTRY EXPERIENCE

Website dashboard designing and building

Burlingame, CA

Software Engineer Intern, Amotions, Inc.

Jun 2022 - Aug 2022

- With **Next.js**, designed the back-end structures for dashboard workflow.
- Built front-end views by **chakra** and **React**.
- Drafted business logic database tables by a NoSQL database firebase.
- Based on **Git**, conducted the version control of a feature with other two group members in a same branch.

Smart Marketing Control Platform (CRM)

Hangzhou, China

Software Engineer, Bank of Hangzhou Co. Ltd

Aug 2020 - Apr 2021

- Collaborated with 16 people in an **agile group** using Scrum, designing a CRM system to help staff to make marketing decisions by filtering customers.
- Led the data development process, designed the schema of the CRM application database and warehouse.
- Extracted data with **SQL** from diverse subsystems and analysed them to be fitted for the CRM system.
- Utilized Teradata as the data warehouse, and used **Perl** to complete daily automatic batches, updating databases everyday.
- Developed back-end structures with Java and frame **Spring Boot** under the **DAO Pattern**, accessing data from databases.
- Organized discussions between product group and engineering group; discussion content included requirement, function design, data architecture design, data development, etc.
- Calculated the interest rate of time-point interest rate table using **Oracle** in the back-end of dashboard.

PROJECTS

Patients Record System based on Blockchain and Ethereum [Link](#)

Blacksburg, VA Jan 2022 - Apr 2022

- Developed a smart contract deployed to Ethereum with **Solidity**.
- Designed the interactions modules based on **Web3.py** with Python. Finished all about uploading, downloading, and processing data points.
- Cooperated with team members, designed a machine learning model to predict the Covid19 result of a people given specific medical features.
- With **Flask + Vue.js**, designed a web page for personal users to get predicted Covid-19 results and for authorities like hospitals, they are able to upload patients data to blockchain(Ethereum) with gas.

A Tool for External Sorting with limited Working Memory Space

Blacksburg, VA Nov 2021 - Dec 2021

- Built an sort tool with **Java**, accomplishing external sorting with limited memory space.
- Designed the **system** structure, allowing running the tool on both IDE and Shell. Programmed the input buffer and output buffer, achieved replacement selection using min heap and multiway merge.
- Developed unit test with **JUnit**.

Full Stack Web Development – Bookstore

Blacksburg, VA Sept 2021 - Dec 2021

- Built an e-bookstore website. Designed both the front-end and the back-end with **Figma**.
- Designed and built the front-end using HTML, CSS, **JavaScript**, and **Vue.js**. Achieved state management by **Vuex** and arranged building with **NPM**.
- Developed the back-end using **REST API** based on DAO pattern. Arranged with **Tomcat** in server.
- Utilized **MySQL** as the database for extracting data from the back-end. Designed database schema for books, customers information.