ZICHENG SHAN

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EDUCATION

Master of Software Engineering   Expected Dec 2022
University of California, Irvine **(3.9/4.0)**

Bachelor of Engineering   Jun 2020
Wuhan University of Technology **(3.78/4.0)**

SKILLS

Programming Languages: JavaScript, Java, Python, SQL, HTML/CSS
Frameworks: React, Vaadin Flow, Node/Express, Spring Boot, REST APIs, Mocha
Database/Tools: MongoDB, MySQL, Material-Ui, Tailwind CSS, Tableau, AWS, Heroku, Git, Postman

EXPERIENCE

Software Development Engineer Intern   Jun 2022 - Present
Aeyesafe, *Seattle, USA*
- Implemented the front-end web interface for a new generation sensor product with **React** framework
- Collaborated with 3 engineers to test 10+ APIs using the **Mocha** testing framework and **Postman**
- Conducted user authentication using **Passport.js** and adopted **Bcrypt.js** to protect user information
- Created **RESTful APIs** with **Node** and **Express** to handle backend leading a 15% improvement in performance

Data Developer Intern   Nov 2020 - Apr 2021
Meituan, *Beijing, China*
- Established a screening and filtering mechanism for overseas hotel rooms by analyzing data, which increased the overall room matching accuracy rate by 0.2%, allowing 150,000+ hotel rooms to be traded on the platform
- Proposed algorithm optimization schemes through **data analysis** to improve basic data of overseas hotels, and increased its overall information coverage by 1.2%
- Constructed 40+ data boards with **Tableau** and completed 60+ data extraction requirements to help business sides to follow up and make decisions on product operations via **SQL**

PROJECTS

Memories|[GitHub][Website]
- Deployed a full-stack social media application that enables registered users to post interesting events
- Fulfilled authorization and authentication using **JWT**
- Built frontend with **React** and **Material-Ui**, powered by **Node**
- Developed stable backend with **Express** and used **MongoDB** as the database
- Performed comprehensive testing and deployed on **Netlify** & **Heroku**

CRM system|[GitHub]
- Built a customer relationship management system for managing contacts
- Simplified database operations with **Spring Data JPA** and handled access control by **Spring Security**
- Developed the UI using **Vaadin Flow** and used **Spring Boot** for backend development
- Implemented **unit tests**, **integration test**, and **end-to-end tests** for the system

Zoggle|[GitHub][Website]
- Deployed a Google Search clone with modern UI using **JavaScript**, **React**, **HTML** and **Tailwind CSS**
- Fetched the latest results, news, images, and videos via **Google Search API**
- Retrieved user's input every 0.3 seconds and refreshed contents if it changed

Testing of commons-lang Library |[Report]
- Applied **JUnit**, **Blackbox/Whitebox** testing and **static analysis** on the open-source Library, adding 10 methods and 75+ lines of code coverage
- Utilized **Mocking** for watching interactions between objects, and ran **Travis CI** for continuous integration