

## He (Mackenzie) Jiang

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### Professional Summary:

A Master's student in Software Engineering with programming experience in Java, Python, Node.js, React, Vue, MongoDB, MySQL, Express; interests: IoT, full-stack development.

### Education:

#### **M.S Software Engineering**

San Jose State University | San Jose, CA | August 2018 - current

- Courses: Operating Systems, Software Engineering Processes, Data Structure C++, Enterprise Software Platforms, Cloud Technologies, Virtualization Technologies, Enterprise Distributed Systems.

#### **B.A Cognitive Science (concentration in computer science), B.A Japanese Language and Literature**

University of California, Berkeley | Berkeley, CA | August 2014 - May 2018

- Courses: Structure and Interpretation of Computer Programs, Data Structures, User Interface Design and Development, Introduction to Database Systems, Theory and Practice of Japanese Translation.

### Professional Experience:

**Software development Intern** | Togg | Berkeley, CA | December 2018 - January 2019

- Created a full-stack web application for tracking health device status.
- Used tools including Node.js, Vue.js, Express, MySQL, Google PubSub, Google Cloud Platform.

### Projects:

#### **Smart Coffee Maker (Node.js, Vue.js, WebSocket, MongoDB, MySQL)**

- Created a web application simulating coffee ordering and customization activities from multiple clients.
- The web client and server implementations follow the LWM2M Protocol.

#### **Smart Sensor Dashboard (Node.js, Vue.js, MongoDB, MySQL)**

- Created a dashboard visualizing simulated sensor data from MongoDB and MySQL.
- Also used Vuetify and Express, deployed to Heroku.

#### **All-in-one Marketplace (PHP, MySQL, HTML, CSS, Javascript)**

- Collaborated with a group to create an online marketplace that supports user registration, review/rating submission, mostly/recently viewed tracking on multiple company websites.

#### **Relational Database System (Java, SQL)**

- Created a relational database system that parses SQL commands and allows CRUD operations.

#### **Tower Defense Game (Python)**

- Created a tower defense game following object-oriented programming paradigms.

### Skills:

**Programming:** Java, Python, PHP, Node.js, Vue.js, React.js, Javascript, CSS, HTML, SQL, MySQL, MongoDB.

**Languages:** Mandarin Chinese (native fluency), English, Japanese (JLPT N1 certified).