

# TONY WANG

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## EDUCATION

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### University of California, Irvine

Irvine, CA

B.S. in Computer Science.

Sep 2019 - June 2020

Relevant Courses: Software Development, Database & Web Applications, Computer Network, Beyond SQL Data Management, Machine Learning/Data Mining, Computer & Network Security, Application Of Probability In Computer Science GPA: 3.469

## EXPERIENCE

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### Ardent Labs

Irvine, CA

Software Development Intern

Oct 2018 - Present

- Designed a website for students to manage their volunteer events by using **MongoDB** to store and query data while implementing the back-end with **JavaScript** and Express(framework) and front-end with JavaScript and **React.js**.
- Refactored the Grade Component of Ardent Office with reducing 30% code with a focus on readability using **React**, **GraphQL**, modern ES6 features and Google's material-UI.
- Fixed 20+ bugs in legacy code such as the erroneous charts and various back-end features via testing and improving the functionalities of the website with the unit testing.

### Baidu Inc

Shenzhen, China

Web Front-end developer

July 2017 – Aug 2017

- Worked in a group of 4 to build an internal communication software used inside Baidu and deployed on **Baidu Cloud**.
- Developed and Implemented the chat UI and collaborated with **UED**(user experience designer) to improve user experience.
- Used Github(version control tool) and adapted agile software development process to manage the project, completed the entire project a week before the expected deadline.

### Ardent Academy

Irvine, CA

Instructor

June 2019 – Sep 2019

- Taught **Python** to 30+ teenagers and led them to finish several projects like AI-chatbot, DNA machine, and AI-Poker.
- Held lectures explaining data structures such as array, linked-list and hash-map with illustrative examples and sample codes.

## PROJECTS

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### Movie Zone

Mar 2019 – June 2019

- Designed a Movie website supported advance searching, managing shopping cart and payment activities.
- Used **Java** and **MYSQL** to implement back-end features, including efficient database algorithms capable of handling requests for 100,000+ data entries, and a remote server containing 60+ **RESTful APIs** hosted on a **Linux Virtual Machine**.
- Built 4 databases with **Microservices** technique and improved user experience by increasing the throughput of back-end with API-Gateway and **multi-threading** and supporting payment with PayPal by using PayPal's API.

### Spotify Browser

Sep 2019 – Dec 2019

- Built a music website for customers to browse and search for the information in the Spotify Library.
- Designed and implemented user-friendly interfaces and page redirection in **Angular**.
- Built the back-end with **Node.js/Express** handled **authentication** via **OAuth** and communicated with the **Spotify API**.

### Cassandra Data Manager

Jan 2020 - Feb 2020

- Manipulated **70,000+** data entries with 3 **Cassandra clusters** from the DataStax company.
- Designed multiple tables with different primary and partition keys to satisfied multiple data fetching with CQL query.
- Tested the **Availability** and **Partition Tolerance** by using different **Consistency** and **Replication\_factor**.

### Yeppy

Feb 2020 - Mar 2020

- Led a team of 4 to build a **Content-based** Personal Event/Restaurant Recommendation System with the Front-End using **JavaScript** and **React.js**, the Back-End using **Java**, **PostgreSQL**, **RESTful APIs**, and the Personal Model based on User Search History, User Location, Event/Restaurant Categories, Like History, etc.

## SKILLS

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- Programming Languages: Java(proficient), JavaScript, C++, C, Python
- Tools & Frameworks: React, MySQL(SQL), PostgreSQL, MongoDB, Apache Cassandra, Node.js, Express, Docker, Microservices, Git, jQuery, AWS, GraphQL, Couchbase(N1QL), Graph DB(Neo4J), Apache Spark