



## EDUCATION

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### University of California, San Diego

B.S in Mathematics and Computer Science, GPA 3.5/4.0

M.S in Computer Science

(Sep 2018- Jun 2021)

Anticipated Graduation Dec 2022

## SKILLS

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**Technology:** React, Bootstrap, jQuery, npm, Node.js, EF, Spring, Azure, AWS, Docker, Redis, RESTful, MySQL, Sqlite, MongoDB, Jmeter, xUnit, JUnit,

**Language:** Python, Java, Javascript, Shell Script, C#, SQL, C/C++, HTML/CSS, awk/sed

## WORK EXPERIENCE

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### Testing Engineer Intern, Baidu IDG, Beijing

(Jul 2021 - Sep 2021)

- Built an automated data extract tool with **Python** to collect traffic light perception info from continuous road testing records, expanding module's capability to test offline and prevent risks for quality assurance
- Filtered data in separated models and different scenarios based on traffic light types and frame time in data extract tool
- Tested 20+ version of L4 autonomous vehicle's traffic light perception module and wrote test cases for each version using **Shell Scripting**, **Robot Framework**, and **Cybertron**
- Covered more than 90% of existing traffic light type data, and generated data for classification model benchmark testing

### Junior Software Engineer, 30Friends, Irvine

(Jun 2020 - Mar 2021)

- Maintained backend using **C#** and **Entity Framework**, and added new endpoints like distributing chat room to users based on the size of the room and number of users in the chat room
- Added cache controlling using **Redis** and **Azure** cloud service and improved website capability to handle 1000+ people visiting concurrently
- Developed unit-test framework using **xUnit** and **moq** from scratch and made code coverage reach 70%
- Cooperated with frontend team to implement image compressing functionality using **React** to reduce image size in Azure

## SELECTED PROJECTS

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### Team Tracker, San Diego



(Jun 2020 - Aug 2020)

- Built a frontend of a team management tool as wechat extension using **React** and **Taro.js**
- Solved the problem of user authentication using **OAuth**, deployed with **Docker**

### Food Underutilization Optimization, San Diego



(Mar 2020 - Jun 2020)

- Built the backend of a website that let users buy cheap food using **Javascript**, **Node.js**, **Express.js**, and **MVC** pattern.
- Design and implemented SQL database with **MySQL**, used **Python** to web scraping merchandise data
- Achieved single sign on functionality using **JWT**

### Recipe101, SDHack 2019, Health and Wellness award, San Diego



(Oct 2019)

- Built a website that give user recipes from database based on expiration dates and preferences from the photo user uploaded, using **Javascript**, **Node.js**, **Express.js**
- Design and implemented a relational database to reduce look up time, served using **AWS EC2** and **RDS**

### The Da Vinci Coders, Game of Codes 2019, First Prize, San Diego



(Aug 2019)

- Implemented a javascript google extension on training site to display how user data were collected in real time using **Tealium** APIs
- Conducted API testing using Visitor Loop Up API and **Postman** and ran EventDB Queries with **SQL WorkBench/J**.