

# ZIRUI WANG

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## EDUCATION

### University of California San Diego

September 2017 - June 2021(Expected)

Bachelor of Science, major in Computer Science, minor in Mathematics

- Proficient in C, C++, Java, JavaScript, Python, SQL, HTML, MATLAB, and  $\text{\LaTeX}$

Bachelor of Arts, major in Economics

- Provost Honors in Spring & Fall 2018, Spring & Fall 2019, Winter, Spring & Fall 2020, Winter 2021

## WORK EXPERIENCE

### Rady School of Management, UC San Diego

April 2020 - Present

Research Assistant, supervised by Prof. Joseph Engelberg on PDDE paper

San Diego, CA

- Develop a Human Intelligence Task (HIT) that simulates changes in the net worth of a stock portfolio using Javascript
- Modify the frontend and backend of the web-app as per Prof. Engelberg's request on a semi-weekly basis
- Deployed on Amazon MTurk & a Chinese platform, which has attracted 12k+ users with 410k+ decisions stored
- Automated the distribution of customized bonus payments to each user in a total of \$12k+ by using Python

### Department of Economics, UC San Diego

September 2020 - Present

Undergraduate Instructional Apprentice of Microeconomics

San Diego, CA

- Review problem sets and quiz solutions to 350+ students; hold two office hours per week; complete ad-hoc duties

### Computer Science and Engineering Department, UC San Diego

September 2020 - December 2020

Tutor of Post-Relational Data Models

San Diego, CA

- Hold two office hours per week; grade the homework of the entire class; complete ad-hoc duties

### Department of Economics, UC San Diego

April 2020 - August 2020

Research Assistant, supervised by Prof. Alexis Akira Toda

San Diego, CA

- Conducted analysis by using MATLAB to predict the course of COVID-19 epidemic on a daily basis

### Inspur Group

July 2019 - September 2019

Software Engineer Intern

Shandong, China

- Constructed MySQL tables and implemented table functions of Create, Read, Update, and Delete on the webpage
- Developed a Configuration Management Database (CMDB) by using Spring framework, EasyUI, and MySQL

### Hehexinxi Technology

June 2018 - August 2018

Software Tester Intern

Shandong, China

- Produced 2 sets of test cases to examine a semi-finished application and led a team of 5 to detect software errors
- Coordinated between client companies and production team regarding software requirements

## ACTIVITIES & HONORS

### Blueprint CS - UCSD Software Design Hackathon

May 2019

Team Leader of SnapReminder app

San Diego, CA

- Awarded the first prize among 20+ teams of 4 by finishing the blueprint of a self-designed application
- Optimized a reminder app by adding camera functions to extract info from photos and set reminders automatically
- Generated a thorough blueprint by presenting app overview, BDD user stories, technology plan, use case diagram

### HackSC

April 2019

Team Leader of Unlock app

Los Angeles, CA

- Implemented a mobile app by using React Native and Google Cloud APIs to identify unsafe ubers
- Created "Unlock Unsafe Uber" function by analyzing routes to warn users to unlock cars when emergencies occur

## SKILLS

<b>Frameworks/Libraries</b>	Express.js, Pandas, PyTorch, TensorFlow, jQuery, Spring, Bootstrap, Agile methodology
<b>Technical Tools</b>	Stata, VSCode, Jupyter Notebook, PostgreSQL, MySQL, Tomcat, Adobe Premiere Pro, WordPress