

# CHIA-JUNG CHANG

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## Education

### University of California San Diego

September 2022 – December 2023

*Master of Science in Computer Science*

*CA, United States*

- Avg. GPA: 3.77/4.0

### National Cheng Kung University

September 2017 – January 2021

*Bachelor of Science in Electrical Engineering*

*Tainan, Taiwan*

- Avg. GPA: 3.99/4.30
- Capstone project: A restful framework for online rental systems.
- Independent study: Empirical study of system reliability, advised by Prof. Hewijin Christine Jiau.

## Technical Skills

**Development Experience:** Backend, Database, Android, Automation testing, Data analysis, CI/CD

**Programming Languages:** Python, Java, C, JavaScript, SQL, Go, Bash script

**Technologies/Frameworks:** Linux, Git, Docker, Django, Tensorflow, AWS, Object Oriented Programming

## Professional Experience

### Research Assistant

January 2022 – August 2022

*Academia Sinica*

*Taiwan*

- Developed an online experiment platform through Otree and django framework.
- Deployed and applied automation testing through CI on heroku platform.

### Software Engineer Intern

January 2022 – June 2022

*Kdan Mobile*

*Tainan, Taiwan*

- Developed android application and automated integration testing. Improved the code coverage by 15%.
- Constructed development infrastructure for DevOps team, applied product evaluation tools, and designed CI/CD pipeline for android product.
- Integrated program analysis automation tool into development process.
- Utilized Amazon Web Services to deploy multiple development automation tools on cloud services.
- Reduced android application deployment period by 40%.

### Research Assistant

August 2018 – February 2021

*Database and Software Engineering Lab, NCKU*

*Tainan, Taiwan*

- Developed an API usage analyzer. Automatically analyzed API usage in open source projects efficiently and precisely, provided reliable information for multiple research projects.
- Conducted an independent study for empirical research of reliable systems in the healthcare domain.
- Designed and analyzed a software system to correspond the epidemic.

## Selected Projects

### API Usage Analyzer | Java, MySQL

February 2021

- Applied Javaparser to analyze the API usage of 1000+ open source repositories and classified them into 20 categories.
- Designed an extendable database schema to improve data processing performance and feasibility with relational database, which handled over 10 millions+ records.
- Used a Metabase framework to build user interface allowing the user to query and analyze with visualization chart.
- Developed with Agile method to cope with the complex and uncertain user requirements.

### Pavement Problem Handler | Python, MySQL, Google Cloud platform, Tensorflow

June 2020

- Cooperated with Tainan City Government to develop a tool to decrease the workload of pavement problem handling.
- Implemented a mobile user interface to increase the user experience with Vue.js and Django framework.
- Build a ConvLSTM network model to predict high-risk pavement problems.