

## OBJECTIVE

Seeking for a software engineer/research internship that prioritizes client support, critical thinking, and communication to achieve technology and computer science goals. Skills include low-level implementation of infrastructure, back-end development on web applications, querying with SQL databases, server-side deployment, and applications with machine learning and data analysis.

## EDUCATION

**University of California, Riverside, California**

*PhD, Electrical Engineering*

*Sep 2020 - present*

**University of California, San Diego, California**

*Bachelor of Science, Computer Science*

*Sep 2018 - Apr 2020*

*Overall GPA: 3.86/4.00*

Coursework: Advanced Data Structure, Design & Analysis of Algorithm, Computer Architecture, Network Services, Computer Vision, Recommend System, Computer Security, Database System Principles, Functional Programming, etc.

**Mira Costa College, California**

*Associate of Arts, Mathematic*

*Sep 2015 - Jun 2018*

*Overall GPA: 3.95/4.00*

## PROJECT

**Mixed-precision benchmark for CUDA**

*Jun 2020 - present*

- Introduced a mixed-precision benchmark suite for modern GPU architectures, mainly focused on CUDA implantations.
- Reflected the real performance gain after applying mixed-precision computing which includes kernel and overheads.
- Aimed to assist the development of later mixed-precision hardware components.

**When2Meet Biegewo - Meeting Scheduling Application**

*Jun 2019 - Dec 2019*

- Re-implemented the full functionality of the when2meet web version on WeChat's mini program platform.
- Developed based on WeChat developer tool and used it's could function as backend and database deployment.
- Enhanced the ability for users to participate in multiple meetings using the same account by redesigning UI/UX.

**MIPS ISA Processor - Course Competition Project**

*Jun 2019 - Aug 2019*

- Simulated a 5-stages pipelined processor that supports MIPS32 ISA by using Verilog on Quartus and ModelSim.
- Improved the performance by adding data forwarding and basic branch predictions. Won a third-place award in class.

**Impact of Scenery on Regional Crime Rates and Citizen Wealth - Data Science Project**

*Apr 2019 - Jun 2019*

- Analyzed the impact from scenery ratings, regional crime rates, and regional household income with Python based on web-scraped data.
- Applied predictors from scikit-learn and geospatial analysis, exploratory data analysis, correlations as major analyzing method.

**GasUp - Gas Station Search Application**

*Apr 2019 - Jun 2019*

- Designed and developed of both Android and IOS version of the app with React-native.
- Deployed web scraper by using Flask on the AWS for back-end implementation to get real-time gas price. Applied the database function of Firebase to store user information and preferences on cloud.

**It's all about the kids - Registration/Check-in Application**

*Oct 2018 - Dec 2018*

- Deployed a web application with css/html/JS for food pantry held by a non-pro t organization It's all about the kids which has more than 200 users every week in San Diego
- Built based on the Google App Script platform. Used Google Sheet as non-professionals friendly visual database.

## WORK/LEADERSHIP EXPERIENCE

**University of California, Riverside**

Research Assistant

*July 2020 - present*

- Assisted in the current development of research project related to leverage hardware accelerators for broader applications.
- Collected and summarized project results to produce potential academic achievements.

**University of California, San Diego**

CS tutor

*Jun 2019 - Sep 2019*

- Helped students to locate bugs in their projects and quickly provide solutions.
- Provided conceptual knowledge allows students to complete programming tasks fundamentally and spontaneously.

**Nanjing Yunshi E-sport And Service Co., LTD, Nanjing, China**

Deputy Manager/IT Assistance

*Jun 2018 - Sep 2018*

- Organized and led employees to complete the various business management and objectives assigned by the company.
- Used software and programming tools to manage employee performance and payroll.

**Mira Costa College, Oceanside, California**

Math tutor

*Sep 2017 - May 2018*

- Provided professional knowledge of mathematics to help students in math related questions.
- Engaged students build up their confidence in order to build their own abilities of independent problem solving.

## PROFESSIONAL SKILLS

**Programming Languages**

**Operating Systems**

**Software & Tools**

**Languages**

Java, Python, C/C++, SQL, JavaScript, Verilog, R

Unix/Linux, Windows

VS Code, Vim, Git/GitHub, Jupyter, Latex, AWS, Quartus/ModelSim

English, Chinese