

# Kaiwen Tan

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<https://www.tamtamkai.com/>

## EDUCATION

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- **Pasadena City College, Pasadena** — Associate Degree  
September 2017 - June 2019, Pasadena
- **University of California, San Diego** — In progress  
September 2019 - Present, San Diego  
In progress, pursuing a Computer Science Degree  
GPA: 3.794 / 4.0

## WORK EXPERIENCE

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### **TABATA ORTHODONTICS, LA VERNE - TECH SUPPORT, INTERPRETER AND FRONT DESK**

*February 2018 – November 2018*

- Troubleshooted software or hardware malfunctions
- Answered general questions and making appointments for customers
- Interpreted for Chinese Customers

### **OSIM, ARCADIA- HEALTH ADVISER AND SALES ASSOCIATES**

*March 2019 – August 2019*

- Worked with the general public and understand their needs
- Provided solutions to their concerns

## PROJECTS

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### **TRITON GROUP - [HTTPS://TRITONGROUPS-C26FA.WEB.APP/INDEX.HTML](https://tritongroups-c26fa.web.app/index.html)**

*Website that connects UCSD students with their classmates for every class - html, css, Javascript, React*

- Implemented admin dashboard that supports administrative user management, feedback viewing, and class discord requests management using a search bar
- Implemented search bar and skeleton of the initial version of the website using React.
- Styled various pages on the website using CSS

### **IMAGE CAPTIONER WITH LSTM**

*Produce captioner for any image of a fixed size using LSTM - Python, Pytorch, Tensorflow*

- Built a Encoder-Decoder architecture using Resnet50 and LSTM
- Fine-tuned hyperparameters and layering to achieve less cross entropy errors
- Experimented with different architectures to get higher BLEU scores

### **9-BIT INSTRUCTION SET ARCHITECTURE**

*ISA optimized for linear-feedback shift register - SystemVerilog*

- Designed pseudo accumulator ISA optimized for LFSR with limited resources (9 bits)
- Implemented compiler to turn assembly code into 9-bit machine code
- Implemented LFSR decoder and encoder using the customized ISA

## SKILLS & INTERESTS

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- C, C++, Java, Javascript, Python, HTML, CSS, React, Verilog
- Interest and ability to learn other coding languages, very good at commenting
- Bilingual in English and Chinese (Madarin and Cantonese), President of Chinese Cultural Club