

# Kaiwen Tan

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## 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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### TRITON GROUP - SOFTWARE ENGINEER

September 2020 – December 2020 -- <https://TRITONGROUPS-C26FA.WEB.APP/INDEX.HTML>

- 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

### TABATA ORTHODONTICS, LA VERNE - TECH SUPPORT, INTERPRETER AND RECEPTIONIST

February 2018 – November 2018

- Troubleshooted professional orthodontics software or hardware malfunctions
- Answered general questions and making appointments for customers
- Interpreted for Chinese Customers regarding their treatment plans

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

March 2019 – August 2019

- Worked with and understood customer needs, and provided solutions to individual's unique concerns

## PROJECTS

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### PERSONAL WEBSITE -- <https://www.tamtamkai.com/>

*Personal Website built independently*

- Designed and implemented the entire website from Scratch using React.js
- Designed and implemented the Hexagon Power Level graph, project showcards, smooth scroll-to-element nav bar

### IMAGE CAPTIONER WITH LSTM

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

- Built an 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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- Languages/technologies: Proficient in C, C++, Java, HTML, CSS, React.js, NumPy, familiar with Verilog, Javascript, Python, assembly, Experienced with Git, Google Firebase, iPhone/Android, Unix/Linux
- Bilingual in English and Chinese (Mandarin and Cantonese), President of Chinese Cultural Club