

Kaiwen Tan

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EDUCATION

- University of California, San Diego** - San Diego, CA September 2019 - Present
Bachelor of Science in Computer Science Major: Computer Science Cumulative GPA: 3.794 / 4.0

TECHNICAL SKILLS

Proficient: C/C++, Git, Unix/Linux, HTML, CSS, React.js, Verilog
Experienced: Java, Javascript, Python, NumPy, Google Firebase

RELEVANT COURSEWORK

Computer Science: Algorithms and Data Structures, Theory of Computation, Software Engineering, Programming Language principles and paradigm, Computer Architecture, Machine/Deep Learning, Operating Systems
Math: Linear Algebra, Statistical Methods, Discrete Mathematics, Calculus, Differential Equations

EXPERIENCE

- TeamSD** | Software Engineer Apprenticeship | La Jolla, CA September 2020 – December 2020
- Worked with a group of 10 CSE students following agile software development methodology
 - Developed admin dashboard that supports admin user management, feedback viewing, and content management
 - Built search bar and skeleton of the initial version of the website using React.
 - Built login pages including user authentication and routing

PROJECTS

- TamTamKai** | Personal Web Application | La Jolla, CA | <https://www.tamtamkai.com/> February 2021
- Independently designed and developed website from ground up using React.js and Google Firebase
 - Designed and implemented the Hexagon Power Level graph, project showcards, smooth scroll-to-element nav bar

- SIPS** | Computer Architecture Class Project | La Jolla, CA | January 2021 – March 2021
- Designed 9 bit pseudo accumulator ISA optimized for LFSR and built compiler to turn assembly into machine code
 - Implemented LFSR decoder and encoder using the customized ISA

- Image Captioner** | Deep Learning Model | La Jolla, CA | December 2020
- Built a Encoder-Decoder architecture using Resnet50 and LSTM, achieving BLEU-1 score of 68.40
 - Fine-tuned hyperparameters and layering and experimented with different architectures to minimize errors

- Graphing Calculator** | Programming Class Project | Pasadena, CA | June 2019
- Developed graphing calculator using object oriented design, pointer arithmetic and reverse polish notation
 - Built UI capable of graphing any inputted functions in a 2D graph that supports zooming in/out and graph exploring

OTHER EXPERIENCE

- Data for Good Hackathon, J.P. Morgan** | Participant | Remote June 2021 – June 2021
- Analyzed data with a team of 5 data analysts using Python and R in a timely manner
 - Came up with solution based on the data analysis to solve real world problems

- Chinese Cultural Club** | President | La Verne, CA January 2017 – June 2017
- Founded the club intended to promote the real life and culture in China
 - Made presentations to 20+ members every weekly

ADDITIONAL SKILLS & INTERESTS

- Bilingual in English and Chinese (Mandarin and Cantonese)