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

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

RELEVANT COURSEWORK

Computer Science: Algorithms and Data Structures, Theory of Computation, Software Engineering, Programing Lang 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

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

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

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

OTHER EXPERIENCE

Data for Good Hackathon, J.P. Morgan| Participant | Remote *June 2021 – June 2021*
- Analyze data 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 (Madarin and Cantonese)