

Henry Kam

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WORK EXPERIENCE

Research Intern

Jan. 2020 - Present

Computational Materials Research Lab | San Jose State University, CA

- Advised by Dr. Santosh KC, which focuses on understanding electronic, optical, and magnetic properties of various materials for novel device applications.
- Utilized machine learning correcting functionals and quantum computing software to analyze the electrical and ionic conductivity of Silicene, the two-dimensional form of silicon, currently drafting a publication.

Cofounder, General Science and Python Lead Teacher | YAPA Kids

Apr. 2020 - Aug. 2021

YAPA Kids is a global nonprofit student-run organization dedicated to providing free supplemental education to 5000+ 1st-8th grade students during the Covid-19 pandemic through Zoom.

- Developed 20+ weekly lesson-plans, including scripts, slideshows and online interactives for the program's curricula.
- Programmed an automated customer ticketing system, and led a team of 5 to handle 40+ weekly inquiries.

RELEVANT PROJECTS AND EXPERIENCES

[3D Art Gallery](#) | HTML, CSS, JavaScript

Oct. 2021

Spearheaded a web app project that displayed paintings in the Rijksmuseum API in a 3D space. Utilized JQuery, Materialize CSS, Three.js, Jimp

[Weather Dashboard](#) | HTML, CSS, JavaScript

Oct. 2021

Designed a web app that forecasts the weather from cities in the US. Utilized JQuery, Bootstrap, Moment.js, OpenWeatherMap API

[Work Day Scheduler](#) | HTML, CSS, JavaScript

Oct. 2021

Developed a simple calendar web application that allows a user to save events for each hour of the day. Utilized JQuery, Bootstrap, Moment.js

EDUCATION AND CERTIFICATIONS

Bachelor of Science in Computer Engineering | New York University

Expected May 2025

Full Stack Web Development Boot Camp | University of California, Berkeley

Expected Dec. 2021

Specialized in Computer Science | West Valley College

Jun. 2021 - Dec. 2021

Specialized in Engineering | De Anza College

Jun. 2020 - Jun. 2021

High School Diploma | Monta Vista High School

Aug. 2017 - Jun. 2021

Neural Networks and Deep Learning | deeplearning.ai (Coursera)

Jun. 2020

SKILLS AND ABILITIES

Languages

- Java | Python | JavaScript | HTML5/CSS | MATLAB | English | Mandarin Chinese | Cantonese

Frameworks/Libraries:

- jQuery | UIKit | Bootstrap | MongoDB | Express.js | React.js | Node.js | MySQL | Tensorflow | Selenium

Abilities:

- CPR/AED/First Aid | Problem Solving | Communication | Leadership | Adaptability | Reliability | Agile