Waylon Peng

Computer Science student at the University of California, Santa Cruz.

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EXPERIENCE

Mindspark Summer, Sunnyvale, CA — *Instructor*

JULY 2018 - AUGUST 2018

- Taught middle school students introductory Java using Eclipse
- Taught middle/high school students game design principles using Processing library

Dept. of Navy SEAP, Naval Postgraduate School — *Intern*

JUNE 2017 - AUGUST 2017

- Designed procedures to manufacture and dope titania nanotubes
- Constructed apparatus to characterize photoelectrochemical properties of fabricated nanotube arrays
- Compiled, analyzed, and presented experimental data at end of apprenticeship program

UCLA David Geffen School of Medicine, Los Angeles, CA — *Intern*

JULY 2016 - AUGUST 2016

- Created CUDA models of human cardiac cells to be run on university GPU clusters
- Simulated and characterized biochemical conditions found in Long Q–T Syndrome patients

EDUCATION

University of California, Santa Cruz

SEPT 2018 - JUNE 2022 (EXPECTED GRAD.)

Freshman, Class of 2022, Computer Science major and Mathematics minor.

Mission San Jose High School, Fremont, CA

SEPT 2014 - JUNE 2018

PROJECTS

emilia

Interactive utility bot for the Discord chat platform, with administrative web dashboard. Uses the discord.js API wrapper, PostgreSQL with TypeORM, React, Express, and Bootstrap. Currently a work-in-progress.

waylonpeng.com

Personal website built using Jekyll and hosted on Github Pages.

Mission Possible

Rube Goldberg-like machine with several integrated sensor-driven events controlled by Arduino and Raspberry Pi units. Construction involved designing circuits to utilise sensors; developing scripts to process infrared, temperature, and contact sensor data; and manual calibration of sensors using collected data.

SKILLS

Presented in order of familiarity.

Languages – Python, HTML, CSS, Java, C++, Javascript

Databases – PostgreSQL, SQLite

Misc. – Linux/Unix, Git, Arduino/Raspberry Pi

COURSEWORK

Ohlone College – Introduction to C++, Introduction to Java, Discrete Structures

UC Santa Cruz – Applied Discrete Mathematics; Calculus for Science, Engineering, and Mathematics; Introduction to Data Structures; Vector Calculus; Linear Algebra