10321 Yearling Drive
https://patwang123.github.io/

Patrick Wang

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Education

University of California, Berkeley August 2020—Present

Bachelor of Science, Electrical Engineering and Computer Science
Cumulative GPA: 4.0 | Graduating: June 2024

Work Experience

Software Engineer Intern at Hatch — California May 2021—Present

- Currently developing a user settings feature to edit profiles, notification preferences, and more.
- Full stack development with NextJS, MySQL/GraphQL, AWS CDK, other AWS services, and more.

Software Engineer Intern at Rimble — Berkeley, California February 2021—May 2021

- Machine learning model designed to generate accurate real time odds and analytics
- Lead website development for funneling investors and developed API for clients

Undergraduate Student Instructor at UC Berkeley — Berkeley, California June 2021—Present

- 20-hour TA that taught discussion section section of 60 students twice every week
- Focus area on software, maintaining infrastructure at https://github.com/Cal-CS-61A-Staff/cs61a-apps for around 1000 students each semester

Research Intern at the University of Maryland — College Park, MD June 2019—August 2019

- Research the effectiveness of machine learning on breaking classical/modern ciphers with Tensorflow

Research Intern at the Johns Hopkins Applied Physics Laboratory — Laurel, MD June 2018—August 2018

- Helped design a framework for the integration of various models to predict long-term natural resource allocations. Performed data analysis for model testing

Projects

Personal Website (https://patwang123.github.io/)

- Personal website built with React. Content includes social links, projects, coursework, and more.

To-do List

- Created a fully functional todo list/API with Django, MySQL, and various Django libraries/toolkits

Neural Network

- Coded a neural network from scratch to recognize digits from MNIST's handwritten digits database, but also generalized to work for any basic ANN

Pathfinding Visualizer (https://patwang123.github.io/Pathfinding-Visualizer)

- Created a basic visualizer for the A* and Djikstra pathfinding algorithms
- Visualization and implementation of algorithms created using Javascript, CSS, HTML, and React

Extracurriculars

Machine Learning Engineer, Launchpad (UC Berkeley) February 2021—Present

- Developed a ML model to track sleeping stages with radio signals using LSTMs, GANs, and CNNs.

Junior Mentor, Computer Science Mentors February 2021—Present

- Tutor a small group of students weekly for CS 61A and create course content for all mentors to use.

Skills

Languages

Python, Java, C++, C, SQL, Matlab, R, CSS, HTML, Javascript, Swift, Bash, Scheme/LISP

Technologies/Frameworks

Git, React, Minitab, Bootstrap, Django, Pytorch, Tensorflow