# Yang Duong

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## Education

**University of California, Santa Cruz**                    **Expected 2022**
*Bachelor of Science in Computer Engineering*                    *Santa Cruz, CA*

- Relevant Coursework: *Data Structures & Algorithms, Embedded Systems & C, Linear Algebra, Applied Discrete Mathematics, Programming Abstractions in Python, Computer Systems & Assembly Language*
- GPA: *3.76*

## Projects

**Recommendation Engine: Daily Dose of Cuteness**          View Project   View Code

- Created a video and picture recommendation app with **React** using media from Reddit.com
- Implemented a weighted pool selection algorithm to show users content similar to what they have "liked"
- Built a backend service using **Node.js** and **Express** to serve custom data from Reddit's **RESTful API**
- Incorporated private data storage for users' "liked" content using the **Web Storage API**

**Fake News Quiz**          View Project   View Code

- Developed a quiz app using **React** and **Bootstrap** in which users discern between real news and fake news given article titles and their claims from Snopes.com
- Integrated article data from Snopes.com into a **MongoDB** database using a custom web scraper
- Designed an API with **Node.js** and **Express** to serve article data from the database to the frontend

**Sorting Algorithm Visualizer**          View Project   View Code

- Built a **React** app to visualize sorting algorithms and compare their time and space complexities
- Incorporated settings for real-time variable animation speed and input data size for easy visual analysis
- Implemented merge sort, quick sort, selection sort, insertion sort, and bubble sort algorithms
- Utilized the **P5.js** library to create the animations and **Bootstrap** to create a responsive page design

**Visual Studio Code Extension: Timer**          View Project   View Code

- Developed a timer extension for **VS Code** with the option for custom alarm sounds
- Utilized the **VS Code API** to display the extension's graphics and controls
- Created in a **Node.js** development environment

## Technical Skills

**Languages**: JavaScript, C, Python, Java
**Web Development**: React, Node.js, MongoDB, HTML/CSS, Bootstrap, Web Scraping, jQuery
**Developer Tools**: Git, Visual Studio Code

## Activities

**Hackathons**: Awarded 1st place for Best Use of AWS at AngelHack
**Engineering Honor Society**: Tau Beta Pi