

GIANG DUONG

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EDUCATION

University of California, Santa Cruz

Bachelor of Science in Computer Engineering, GPA: 3.62

Expected 2022

Santa Cruz, CA

EXPERIENCE

Economics Lab Software Developer

June 2021 – Present

LEEPS Lab at University of California, Santa Cruz

Santa Cruz, CA

- Developed full-stack multiplayer economics simulations using JavaScript, React, Django, and PostgreSQL
- Wrote Python scripts to parse and visualize collected data using NumPy, Pandas, and Matplotlib libraries
- Collaborated with PhD candidates and professors to discuss project deadlines and features

TECHNICAL SKILLS

Languages: JavaScript, Python, C

Web Development: React, Node.js, PostgreSQL, MongoDB, HTML/CSS, Bootstrap, Django, jQuery

Developer Tools: Git, Visual Studio Code, Vim

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**, currently has **400+ downloads**
- Utilized the **VS Code API** to display the extension’s graphics and controls
- Programmed with JavaScript in a **Node.js** development environment