

# April Huang

(925) 487-6217 | [aphuang@ucsd.edu](mailto:aphuang@ucsd.edu) | [linkedin.com/in/april--huang](https://www.linkedin.com/in/april--huang) | [github.com/aprilhuang39](https://github.com/aprilhuang39)

## EDUCATION

**University of California, San Diego**

**Expected June 2027**

Bachelor of Science, Double Major in Mathematics-Computer Science & Data Science

## EXPERIENCE

**Data Analytics Intern, GoFundMe** - San Francisco, CA

*Jun. 2025 - Present*

- Refactored **SQL**-based internal metrics dashboards to significantly reduce query latency by **98%** and improve performance monitoring.
- Built a conversational AI agent that translated natural language into queries, enabling team members to retrieve complex metrics and insights without manual analysis.

**Instructional Assistant, UC San Diego** - San Diego, CA

*Jan. 2025 - Present*

- Tutored 300+ students in **Java**, object-oriented programming, and data structures across CSE 11, CSE 12, and DSC 30 (Accelerated Intro to Programming and Data Structures & Algorithms)

**Software Developer, UC San Diego Data Science Student Society** - San Diego, CA

*Oct. 2024 - Present*

- Rebuilt the [ds3ucsd.com](https://ds3ucsd.com) site using **Svelte** and **TypeScript**; optimized mobile UX and added interactive features for 100+ users.
- Designed a robust backend with **Express.js** and **MongoDB**, enabling fast, secure API interactions.

## PROJECTS

**Interactive Financial Dashboard** - [cartert27.github.io/outperforming-the-index/](https://cartert27.github.io/outperforming-the-index/)

*May 2025 - Jun. 2025*

- Built an interactive financial dashboard in **Next.js** and **TypeScript** featuring dynamic D3.js-based visualizations to analyze stock performance, portfolio backtesting, and behavioral finance concepts.
- Built a responsive UI with **Tailwind CSS**, **Radix UI**, and **shadcn/ui** to support dynamic filtering and simulations.
- Processed real S&P 500 data entirely client-side for real-time calculations and trend analysis.

**Triton Consulting Group Application Portal**

*Feb. 2025 - Mar. 2025*

- Utilized **MERN** stack and **Firebase** authentication to develop a secure and scalable application portal, enabling seamless user registration, login, and session management.
- Designed intuitive UI components to enhance user experience and streamline navigation.

**Continuous Music Generation**

*May 2025 - Jun. 2025*

- Generated original music by fine-tuning MusicGen on a curated 7+ hour dataset, using **PyTorch Lightning** and classifier-free guidance.
- Preprocessed audio using **yt-dlp** and **Spleeter** for clean source separation of vocals and instrumentals.
- Analyzed spectral features with **librosa** and visualized dataset diversity using **pandas** and **matplotlib**.

**Recipe Analysis Model** - [aprilhuang39.github.io/recipe-analysis/](https://aprilhuang39.github.io/recipe-analysis/)

*Nov. 2024 - Dec. 2024*

- Built a predictive pipeline using **pandas** and **scikit-learn** to estimate recipe preparation time across 80K+ entries.
- Trained and optimized **Random Forest** and **Decision Tree** regressors; evaluated feature importance and model accuracy.

## ACTIVITIES

**Data Science Student Society** - Software Developer

*Oct. 2023 – Present*

- Led workshops on web development and version control; contributed to internal tools and site infrastructure.

**Triton Consulting Group** - Technical Associate

*Jan. 2025 – Present*

- Delivered technical solutions for [OutOfTheBlue.ai](https://OutOfTheBlue.ai), including anomaly detection for ecommerce traffic.

## SKILLS & TECHNOLOGIES

**Languages/Tools:** Java, Python, SQL, JavaScript, TypeScript, C++, C, HTML/CSS, R, MATLAB, Git, GitHub

**Frameworks/Libraries:** React.js, Node.js, Express.js, MongoDB, PyTorch, pandas, polars, scikit-learn, Svelte, Beautiful Soup