

# Aaron Wang

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## EDUCATION

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**University of California, Riverside**

Riverside, CA

*Bachelor of Science in Computer Science*

*Expected Graduation: December 2025*

## PROJECTS

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**Portfolio Website** | *TypeScript, Next.js, Tailwind CSS*

- Developed and deployed portfolio website using TypeScript and Tailwind to showcase my current resume and past projects
- Implemented interactive and downloadable resume using TypeScript
- Developed reusable components (navBar, header) in Tailwind to style multiple site pages

**CLI-Lock (Password Management Tool)** | *C++*

- Developed password management tool that stores account information for multiple domains
- Implements Crypto++ library to encrypt user information
- Constructed the password quality handler and password generation functions
- Implemented password generation that meets the quality standards of an acceptable strong password and derives words from a dictionary file.
- Increased speed of user generation of strong passwords by up to ~90% from creating a function to instantaneously generate passwords using a dictionary of 200+ words.

**TV Character Database Visualizer** | *ReactJS*

- Built a visual database using React of characters appearing in Better Call Saul
- Fetched data via Axios from a dedicated API (<https://breakingbadapi.com/>) and developed a character list only pertaining to the Better Call Saul category
- Implemented and designed a card-based format generating character's image, name, nickname, and real actor
- Improved accuracy of the API by 9% by re-configuring the API to fetch correct character data in database.

**Clipboard (Chrome Extension)** | *JavaScript, HTML*

- Developed a chrome extension responsible for storing notes on a Google Chrome tab
- Designed for saving information onto browser cache and has the ability to be cleared completely off it
- Implemented re-expandable text pad in order to scale the quantity of user's text

**Optimal Oranges Calculator** | *Javascript, HTML, CSS*

- Implemented a front-end application to calculate the optimal time to harvest oranges
- Designed the randomization of the estimated optimal timing of harvest
- Inputted optimal types of oranges to be planted once given the harvesting month

## INVOLVEMENT

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**Association for Computing Machinery (ACM)** | *Member*

September 2022 – Present

- Member of UCR's ACM club, focused on learning computing and expanding interest in computer science
- Participated in Cutie Hack 2022 and led a group of 4 in the creation of Optimal Oranges Calculator

## CERTIFICATIONS/AWARDS

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Chancellor's Honors List

UC Riverside

Computer Programming IB Python

YouScience

Computer Programming I

YouScience

AP Scholar

College Board

## TECHNICAL SKILLS

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**Languages:** C/C++, JavaScript, Java, Python, HTML/CSS, TypeScript

**Frameworks:** React, Node.js, Next.js

**Developer Tools:** Git, VS Code, Visual Studio, Eclipse

**Libraries:** Axios

**Relevant Coursework:** Intermediate Data Structures and Algorithms, Discrete Structures, Software Construction, Linear Algebra