

# Harrison Cooper

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## Education

**University of California, Riverside**

**Sep. 2020 - June 2024**

B.S. in Computer Science

- GPA: 3.7 / 4.0
- Vice Chair of IEEE (Institute of Electrical and Electronics Engineers)

## Work Experience

**UCR Academic Resource Center**

**Sep. 2022 - Present**

Tutor

Riverside, CA

- The ARC is an organization funded by the school to provide undergraduate UCR students with academic support, mentorship, and leadership free of charge.
- 15 hours per week I provide support to ~20 students by leading tutoring sessions for the more challenging classes in computer science, math, and physics.
- Common topics include data structures & algorithms.

## Projects

Air-Police

Sep. 2023 - March 2024

- The purpose of this project is to improve people's access to air quality information. We take raw sensor data from strategically placed monitors around the Salton Sea area then process and display it on a website created for the project.
- Data visualization is done using Python scripts after making API calls in Python.
- I developed most of the front-end elements with html / css and created a dashboard that is populated by queries to our SQL database.

WebMart

Dec. 2022 - March 2023

- Group project where we developed a website allowing users to list and purchase items.
- Developed using JavaScript, HTML, CSS, and MongoDB for the server.

Compiler-APP

Apr. 2023 - June 2023

- Collaborated with a team of 3 to design and build a working compiler from the ground up.
- Used C to implement concepts such as Lexical Analysis, Parsing, and Code Generation.

Sustainability-Bot

Nov. 2022

- 12 hour Hackathon project in which we created a discord bot themed around sustainability.
- Used Python to code the bot and implemented functionality with a discord API.

Amazon-Warehouse

Feb. 2024 - March 2024

- DBMS course project where I created a basic "Amazon website" with a teammate.
- Used Postgresql to manage the supply logistics and Java for the user interface.

## Technical Skills

**Programming Languages:** C/C++, Python, Java

**Web Development:** HTML, CSS, Node.js, Express.js

**Database Administration:** MongoDB, SQL