

ZAKI COLE

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Education

USC

Expected Graduation: May 2026

B.S. Computer Science and Business Administration

- Dean's Scholarship Recipient
- Relevant Coursework: Intro to Programming, Organizational Behavior and Leadership, Engineering Freshman Academy, Ethics Technology and Value

Skills

Software: C++, Python, SQL, Linux (Ubuntu OS), Javascript, HTML, CSS, Tailwind, Figma

Data Analysis: Grounded Theory, Tetrachoric Correlation, Polychoric Correlation

Work Experience

Research Assistant, USC Networked System Labs (Python, Linux OS Ubuntu)

August 2022-May 2023

- Demonstrated aptitude in CARLA-Simulator API, a popular tool for testing and collecting data related to car/traffic simulations
- Developed a proficiency in Linux OS Ubuntu and Linux Terminal commands
- Achieved a 50% increase in data collection efficiency through the implementation of input driven data collection scripts in the CARLA-Simulator.

Research Assistant, USC Interaction Lab (Python, Pandas, Numpy)

July 2022

- Through the Jupyter Notebook IDE I used python libraries such as Pandas and NumPy to clean and parse CSV files of data containing over 150 survey responses
- Used analysis skills such as Grounded Theory, Tetrachoric Correlation, and Polychoric Correlation to gather data on relationships between the studies participants' likes/dislikes

Web Developer, USC Rossier Center for Education & Engineering

March-June 2021

- Worked alongside professor's to design preliminary UI/UX drafts and wireframes in Figma and later developed locally hosted website mockups with HTML and CSS

Personal Projects

Face Detection Program (C++, OpenCV)

April 2023

- Developed a face detection program using C++ and OpenCV, which can identify and mark a square around any detected face with 90% accuracy and display a count of the total number of faces detected.
- Implemented a feature that allows the program to capture snapshots of newly detected faces and save them to a designated output folder for further analysis.
- Github Link: <https://github.com/Dev-ZC/FaceDetector>

Volunteer Management Database (Python, SQL)

April 2023

- Developed a functional Volunteer Management database using Python and SQL, enabling efficient storage and retrieval of relevant volunteer information
- Github Link: <https://github.com/Dev-ZC/FaceDetector>

Personal Website (HTML, CSS, Javascript, Tailwind)

May 2023

- Checkout my personal website to learn more about me at <https://zakicoleportfolio.onrender.com>

Leadership Experience

President, Black Alliance (Black Student Affinity Group)

September 2020- June 2022

- Led group discussions and handled event planning for up to 50+ attendees throughout the school year including Black Student Family Breakfasts, weekly group meetings, and Black History Month Celebrations