DAVID SOLANO

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EDUCATION

California State University, Fullerton GPA: 3.91

Bachelor of Arts in Computer Science, Minor in Economics *Graduation Date: Dec 2025*

EXPERIENCE

Supplemental Instruction June 2023 – Present

California State University, Fullerton *Fullerton, CA*

- Develop comprehensive study materials and interactive presentations to simplify complex C++ concepts, resulting in a 10% increase in student comprehension and grades.
- Utilize innovative teaching techniques such as hands-on coding exercises and group discussions to foster active learning and student engagement.

Organization President May 2023 – Present

Association for Computing Machinery, CSUF *Fullerton, CA*

- Organized and executed 50+ meetings and events for a community of 1,350+ members, resulting in over a 30% increase in attendance and engagement from previous years.
- Collaborated with board officers to launch an annual hackathon event, attracting over 120 participants and generating $500+ in sponsorship revenue.

PROJECTS

Path Find | *React, Typescript, Next.js, TailwindCSS, CSS, HTML, DaisyUI* July 2023 – Present

- Collaborated with a peer to program and successfully create a highly efficient implementation of Dijkstra's algorithm within the visualizer
- Enhanced the performance of the visualizer by optimizing code structure and implementing efficient data structures, resulting in a 50% reduction in loading time for large graph simulations.

Weather App | *OpenWeather API, JavaScript, HTML, CSS, Git* Dec 2022 - Jan 2023

- Utilized the OpenWeather API to parse real-time weather data into a user-friendly readable format, providing accurate weather information to users with an average accuracy rate of 99%.
- Constructed a visually appealing and responsive application using HTML, CSS, and JS, resulting in an enhanced user experience

Breast Cancer Predictor | *Google Colabs, pandas, NumPy, Python* Oct 2022 - Oct 2022

- Implemented machine learning algorithms to predict the malignancy of cells with an accuracy rate of up to 98.73%, resulting in more accurate and efficient diagnoses.
- Organized a comprehensive dataset of over 10,000 cell samples to train the ML program, ensuring a robust and reliable predictive model.

ACTIVITIES

International Collegiate Programming Contest Lead May 2023 – Present

California State University, Fullerton *Fullerton, CA*

- Led practice workshops for a team of over 40 individuals, improving their algorithmic problem-solving skills.
- Implemented innovative training methods, including hands-on coding exercises, mock competitions, and team-bonding events.

TECHNICAL SKILLS

Languages: C/C++, Python, JavaScript, Typescript, HTML/CSS, Java, Golang
Frameworks: React, Svelte, Node.js, Flask
Developer Tools/Technology: Git, Shell, GDB, VS Code, Visual Studio, PyCharm
Libraries: pandas, NumPy