

DAVIS CARMICHAEL

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EDUCATION

Chapman University, Fowler School of Engineering, Schmidt College of Science and Technology
Orange, CA

Bachelor of Science in Physics and Computer Science

December 2022

- *Relevant Coursework:* Data Structures and Algorithms, Web Development, Cybersecurity, Database Management, Quantum Mechanics, Optics Lab

PROJECTS

Desmos Algebra

Developed a custom computer algebra system allowing users to input equations and generate solutions for all possible permutations. Utilized Rust, Haskell, and Shell Scripts, leveraging Dockerfiles for seamless deployment.

- Designed the algorithm for parsing mathematical syntax and generating permutations.
- Implemented the program in Rust and Haskell, ensuring robust functionality.
- Orchestrated deployment using Dockerfiles, streamlining accessibility for users.
- Significantly enhanced the efficiency of equation solving, providing a versatile tool for mathematical analysis.

TIC-TAC-TOE

Implemented a versatile Tic Tac Toe game using React, featuring multiple modes including simulated gameplay against the computer, player versus computer, and a two-player mode.

- Developed the game logic and user interface using React components.
- Integrated various gameplay modes to cater to different user preferences.
- Implemented algorithms for simulating computer moves and determining game outcomes.
- Demonstrated adeptness in React development and game design principles, resulting in an engaging and adaptable gaming experience.

SKILLS

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| • Programming Languages: Java, JavaScript, C/C++, C#, Python, Rust, Haskell | • Classical Mechanics, Thermodynamics, Quantum Mechanics, Optics; Laboratory and Theory |
| • Database Technologies: DynamoDB, SQL, MongoDB | • Mathematical and Scientific Computing Methods of Analysis |
| • Docker and System Programming | |

EXPERIENCE

Costco Wholesale

Food Service Assistant

Tustin, CA

July 2023 – Present

Chapman University Tutoring and Learning Center

Supplemental Instructor

Orange, CA

August 2022 – December 2022

Evan's Creek Landscaping

Landscape Technician

Sammamish, WA

Summer 2019, Summer 2021

LEADERSHIP

Chapman's Cross Country/Track & Field Team Leadership Committee

July 2019 – May 2021

CHARACTERISTICS

- *Awards:* Washington State Honors Award, Highest Athletics Team GPA 4 years (Cross Country)
- *Traits:* Communication, Adaptability, Leadership, Collaboration