

DAVIS CARMICHAEL

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EDUCATION

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

Bachelors of Science in Physics and Bachelors of Science in Computer Science

December 2022

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

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

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