DAUS CARMICHAEL

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PROJECTS

betties.app | *Next.js, React, Supabase*
Social betting app where users can create, place, and cash bets with friends
- Responsive social media web app with mobile and desktop support using React
- Stores betting history, transactions, groups, and profile info in a Supabase PostgreSQL DB
- Features social functionalities including adding friends and creating private groups
- Implemented web scrapers to gather live PGA tour data using Python and Selenium

Desmos Language Model and Computer Algebra System | *Rust, Haskell, Dockerfile*
Custom computer algebra system that evaluates permutations of basic algebraic expressions
- Supplies a versatile tool for mathematical analysis
- Isolates and rearranges for each variable in the requested equation
- Operates with a recursive function following basic algebraic principles
- Provides ease of access through Dockerfile configurations to allow cross-platform use

WordleBot | *Java, Shell Scripts, Batchfiles, APIs*
Command line interface that solves the popular NYT word game, Wordle
- Java algorithm succeeds in calculating the puzzle 100% of the time
- Verifies 5 letter combinations by calling the DictionaryAPI
- Provides automatic installers and configurations for both Windows and MacOS
- Enhances user interaction and accessibility through a React-based interface

SKILLS

- Programming Languages: Java, JavaScript, React, C/C++, Python, Rust, Haskell
- Database Technologies: DynamoDB, PostgreSQL, MongoDB, MySQL
- Testing and Web-scraping: Selenium, Jest
- Classical Mechanics, Thermodynamics, Quantum Mechanics, Optics; Laboratory and Theory
- Mathematical and Scientific Computing Methods of Analysis

WORK EXPERIENCE

Costco Wholesale   **Tustin, CA**
Food Service Assistant   *July 2023 – July 2024*

Chapman University Tutoring and Learning Center   **Orange, CA**
Supplemental Instructor   *August 2022 – December 2022*

Evan's Creek Landscaping   **Sammamish, WA**
Landscape Technician   *June 2019 - August 2021 (seasonal)*

EDUCATION

Chapman University - Class of 2022   **Orange, CA**
Bachelor of Science in Physics   *August 2018 - December 2022*
Bachelor of Science in Computer Science

LEADERSHIP

Chapman Cross Country/Track & Field Team Leadership Committee   *July 2019 – September 2022*