DAUS CARMICHAEL

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PROJECTS

betties.app | Next.js, React, PostgreSQL, Selenium

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
- Gathers live PGA tour data using Python and Selenium web scrapers

Desmos Language Model and Computer Algebra System | Rust, BNFC, 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, Build files, 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 Dictionary API
- Provides automatic installers and configurations for both Windows and macOS
- Enhances user interaction and accessibility through a React-based interface

TECHNICAL SKILLS

- Languages: Haskell, Java, JavaScript, Python, React, Rust
- Databases: AWS S3, DynamoDB, MongoDB, PostgreSQL
- Web-Scraping Tools: Selenium, cURL
- **Development Tools:** Shell scripts, Batch files, Git

WORK EXPERIENCE

Assistant Center Director at Mathnasium of Marina del Rey (August 2024 – Present)

Math Tutor for Study Smart Tutors (August 2024 – Present)

Food Service Assistant at Costco Wholesale (July 2023 – July 2024)

Private Tutor for Physics, Math, and Computer Science (December 2020 - May 2023)

Supplemental Instructor at Chapman University Tutoring and Learning Center (August - December 2022)

EDUCATION

Chapman University - Class of 2022

Orange, CA

Bachelor of Science in Physics

August 2018 - December 2022

Bachelor of Science in Computer Science

Relevant Coursework: Database Design, Algorithm Analysis, Data Structures and Algorithms, Scientific Computing, Human-Computer Interaction, Compilers & Programming Languages

LEADERSHIP