

DAVIS CARMICHAEL

(206) 427-6419 | dauscarmichael@gmail.com | <https://www.daus-s.dev>

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 solves 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 script succeeds in calculating the puzzle 100% of the time
- Verified 5 letter combinations by calling the [DictionaryAPI](#)
- Created automatic installers for both Windows and MacOS

SKILLS

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| • Programming Languages: Java, JavaScript, React, 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 |
| • Testing and Web-scraping: Selenium, Jest | |
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WORK 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

June 2019 - August 2021 (seasonal)

EDUCATION

Chapman University

Bachelor of Science in Physics

December 2022

Bachelor of Science in Computer Science

LEADERSHIP

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