

# DAVIS CARMICHAEL

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| <https://www.daus-s.dev>



## PROJECTS

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### **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

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### **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

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### **Chapman University**

*Bachelor of Science in Physics*

*December 2022*

*Bachelor of Science in Computer Science*

## LEADERSHIP

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