DAVIS 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
- Stores user data, tracking betting history, transactions, groups, and profile info
- Features social functionalities including adding friends and creating private groups
- Secured by a full suite of RLS implemented in Supabase's PostgreSQL

Scheduling Website | *React, MongoDB, Google OAuth2, Netlify hosting, CI/CD*
Website to manage tutoring resources including scheduling and file uploads
- Scrapes my work schedule and uploads availability to the database
- Sends automated emails before all appointments with details of confirmed session(s)
- Displays both confirmed and pending tutoring appointments on the scheduling calendar

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 solves 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

SKILLS

- Programming Languages: Java, JavaScript, React, C/C++, C#, Python, Rust, Haskell, Go
- 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

WORK EXPERIENCE

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

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
Bachelor of Science in Physics and Computer Science   *December 2022*

LEADERSHIP

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