

Bradley Cederholm

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EXPERIENCE

Solar Gators

Aug. 2025 – Present

Strategy Lead

Gainesville, FL

- As Strategy Lead, I architect and create telemetry systems, data-driven simulations, and web-apps for the Solar Gators solar racing team.
 - Software used at FSGP meets each summer to predict energy expenditure and race performance based on Software previous race data, discrete physics simulations, and weather prediction APIs.
 - The tech stack includes TypeScript, React / Next.js, Golang, and REST APIs.
- Youngest lead of the Strategy team, and promoted after just 2 semesters as a team member.

PROJECTS

FSGP Track Simulation

Aug. 2025 – Present

Gainesville, FL

- Architected and developed a physics-based race simulator for the Solar Gators Flare car. Our model uses predictive algorithms, multi-variable optimizations, and weather data to accurately optimize car speed and acceleration to achieve maximum performance.
- Results from the simulation are projected live into the cockpit of the vehicle via an embedded interface and wireless network developed by my team and I.

Telemetry Web Application

Sept. 2024 – Aug. 2025

Gainesville, FL

- Redesigned and scaled the Solar Gators telemetry platform to a full-stack, real-time web application.
 - Includes customized graphing, real time Google Maps API tracking, and data visualization options with full OAuth protection.
- Real-time CAN data from the car is received from the Flare car while online, with the data being fed into the website for real-time monitoring and tracking, with integrated functionality between the database and the Track Simulation.

NASA App Development

Sept. 2023 – Nov. 2023

Weston, FL

- Led a six-person development team to build and deploy a Unity-based simulation platform visualizing the Haworth Crater on the moon with real-world NASA datasets for the NASA App Development Challenge
 - My simulation featured real-time data overlays, with actual azimuth calculations based on actual communications systems, heatmap world levels, and full first-person astronaut simulation ability.

EDUCATION

University of Florida (3.80 GPA)

BS, Computer Science

May 2028

Gainesville, FL

SKILLS AND TECHNOLOGIES

C, C++, Golang, Java, Maven, C#, Typescript, Next.js, React, Tailwind CSS, Rust, REST APIs