



THIAGO SARDENBERG

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Education

University of California, Irvine

B.E. in Computer Science and Engineering

Sep. 2025 – May 2027

Irvine, California

Technical Skills

Languages: JavaScript, TypeScript, Python, Java, C++, Dart, SQL, HTML, CSS

Frameworks: React.js, React Native, Flutter, Node.js, Express.js, Tailwind CSS

Tools & Technologies: Git, GitHub, Firebase, PostgreSQL, Arduino, PixyCam, CAD

Spoken Languages: English, Portuguese

Relevant Coursework: Discrete Mathematics, Linear Algebra

Experience

RaiseLink

Software Engineering Intern

May 2024 – Aug. 2024

Boca Raton, Florida

- Conducted code reviews on Bitbucket and identified a UI bug in a React web application for a social network startup.
- Debugged and resolved the React UI issue, contributing a fix directly to the production codebase.

Projects

Eco-Friendly iOS App “Sapling” | *React Native, TypeScript, Firebase, React*

May 2024 – Nov. 2024

- Developed and published a climate-focused productivity app on the App Store; fundraiser raised \$1,200 leading to 1,200 trees planted; featured in GeekWire.
- Built responsive UI with React Native and Tailwind CSS; integrated Firebase for user data; created a React website to support fundraising, promoted via TikTok and custom domain.

Fashion Detection Web App | *Python, YOLOv8, Express, PostgreSQL, React*

Feb. 2026 – Present

- Built an app using YOLOv8 to detect clothing items in images (shirts, pants, jackets) and perform reverse image searches to surface shoppable product links.
- Implemented object detection pipeline that crops detected garments and queries external sources; built REST API backend with Express and PostgreSQL.

AI Trip Planner | *Flutter, Dart, Firebase, Claude API* | *IrvineHacks*

Mar. 2026

- Built a collaborative trip-planning app in ~50 hours at IrvineHacks; integrated Claude API to generate personalized itineraries based on user mood and preferences.
- Implemented curation flow where users accept/discard AI-generated activities or plan manually; added social features for friend invites, shared group trips, and post-trip photo albums.

Autonomous Rover | *Arduino, C++, PixyCam, CAD*

Jan. 2026 – Feb. 2026

- CAD-designed full chassis and custom claw, soldered all electronics, and wrote line-following (IR sensors) and color-signature object detection (PixyCam) firmware from scratch.
- Rover autonomously completed a multi-phase navigation course and retrieved a can with the custom claw; placed **13th out of 50 teams**.

Leadership / Extracurricular

Coding Club

President

Aug. 2024 – May 2025

Boca Raton, Florida

- Taught React Native, Node.js, and Firebase by guiding members through building their first iOS app; organized activities and mentored club members.

Zotbotics Robotics Club

Member

Mar. 2026 – Present

Irvine, California

- Designing and building a robotic spider: CAD-modeled all structural components and programming locomotion using Arduino, servos, and sensors.

Math Tutor

Tutor

Aug. 2024 – May 2025

Boca Raton, Florida

- Provided individualized tutoring in Algebra through Calculus AB, focusing on test preparation and concept mastery.