Aiden Racelis

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aidenracelis.github.io/Portfolio-Website/

EDUCATION

Bachelor of Science in Computer Science   **Aug 2023 – Dec 2026**
College of Engineering, Virginia Tech, Blacksburg, VA   **GPA: 3.51/4.0**
- **Relevant Coursework:** Software Design & Data Structures, Intro to Problem Solving in CS
- **Honors**: Dean's List (Spring 2024, Fall 2024)

EXPERIENCE

EcoCAR EV Challenge Connected and Autonomous Vehicle (CAVS) Team Member   **Aug 2024-Present**
- Streamlined conversion of more than 1000+ signals from a .dbc file to Excel via automated scripting with notable time savings achieved during critical project phases for autonomous vehicle development.
- Contributing to Sensor Fusion subteam of 4 members, integrated a Python-based tracking algorithm of real-live data, accurately detecting and plotting vehicles, pedestrians, and lanes in a 3D aspect in an Open Source ROS2 by decoding and extracting signals from front, long, and short-range camera sensors of the 2024 Cadillac Lyriq.
- Sponsored by General Motors and participating in the 4-year EcoCar EV Challenge, competing against 15 North American universities to advance sustainable automotive technologies.

PROJECTS

HokieTrails Hiking Website   **Ongoing**
- Designing and developing an interactive trail guide and lodging recommendations for outdoor enthusiasts.
- Designed Figma Schema and route handling of Geolocation using Autocomplete in GoogleMaps API.
- Utilized: Next.js, GoogleMaps API, TypeScript

Realtor101 VTHacks12 Hackathon   **September 13-15 2024**
- Collaborated with 3 team members to implement a full-stack training program for users interested in the real estate field with a simulation conversation with an OpenAI client, receiving commendation from 3 CoStar Group technical judges.
- Users can search for homes for the AI and be rated through social interaction and accuracy to the AI's choice of house through prompt engineering.
- Utilized: ReactJS, JavaScript, OpenAI API, CSS, Node.js, Express, Figma

LEADERSHIP

Student Engineers' Council (SEC) | Blacksburg, VA   **April 2024-Present**
- Collaborating on a committee to enhance the impact of E-Week for 12,900 engineering Hokies at Virginia Tech.
- Coordinated a week-long itinerary of events for 100+ student attendees around campus, ranging from Jeopardy Night, Amazing Race Riddle Marathon around campus, and Distinguished Virginia Tech Alumni Lecture Night to inspire students.

Party Planner | Springfield, NJ   **June 2020-August 2023**
- Coordinated over 100 events with 20+ attendees, as a party host, ensuring customer satisfaction through effective communication and management.
- Trained and mentored over 10 associates, resulting in an 80% improvement in public speaking skills.

TECHNICAL SKILLS

Technical Skills
- **Languages:** Java, Python, JavaScript, HTML, CSS, MATLAB
- **Framework:** ReactJS
- **Operating System / UI:** Linux, GitBash, Git
- **Others:** SQL, Figma, Postman