SEAN PREVITY

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EDUCATION

University of Central Florida, Computer Science, Bachelors of Science   2021 — Present
- GPA: 3.62

PROJECTS

Pegaus Parking Website   October - December 2024
- MERN application (MongoDB, Express.js, React, Node.js) for university parking coordination.
- Deployed the website to **AWS (EC2)** with HTTPS encryption via Let's Encrypt.
- Built a modular Express.js backend using Mongoose for scalable data modeling and API structure.
- Integrated Google Maps APIs, including Routes API, to calculate real-time directions and distances.
- Utilized GitHub for development.

France Travel Guide Website   April 2025 — Present
- Full-stack app using React and Flask.
- Populated and enhanced a **37,000+** row PostgreSQL 'towns' table by importing INSEE shapefiles and adding coordinates for each commune.
- Utilized the OpenAI API for town descriptions and Wikipedia MediaWiki API for photos.
- Integrated an interactive map feature through Google Maps API.
- **Bilingual** language UI support for French and English using React Context.
- Implemented a cache system for previously generated AI descriptions, with automatic invalidation on errors, to cut API calls and network latency by over **50%**.

Premiere League Stats Tracker   April - May 2025
- Full-stack website that displays stats for matches and teams in the English Premiere League.
- Built with Next.js, Fast API, and a PostGreSQL database on Supabase.
- Automatic statistics updates through a script and a cronjob, ensuring the site's data stays up-to-date automatically.
- Implements PostgreSQL conflict resolution logic to upsert match, odds, and statistics data.

University Event Manager   February - April 2025
- Event management platform using React, Node.js, and Express.
- Designed and implemented RESTful APIs with Express.js and JWT-based authentication.
- Utilized MySQL as the relational database to manage users, events, RSOs, and comments.
- Implemented role-based access control (RBAC) to differentiate event visibility based on RSO membership and university affiliation.

SKILLS

- **Languages:** Java, Python, JavaScript, C
- **Frameworks & Libraries:** React.js, Node.js, Express.js, Flask, FastAPI, Mongoose, SQLAlchemy, Hugging Face Transformers
- **Cloud/Databases/Tech-Stack:** PostgreSQL, MySQL, MongoDB, Supabase, Docker, Git, GitHub, AWS, Postman/SwaggerHub
- **English:** Native proficiency
- **French:** Limited Working proficiency