Daniel Palma

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Education

University of Central Florida Orlando, Florida

B.S. in Computer Science, Minor in Mathematics 3.9/4.0 GPA *Expected Graduation: 2026*

Relevant Coursework: *Data Structures and Algorithms, Object Oriented Programming, Discrete Mathematical Structures, Computer Logic*

Technical Skills

Languages: Java, Python, Rust, C, C++, C#, SQL, Haskell, OCaml, JavaScript, TypeScript, HTML, CSS
Frameworks: React, Node.js, Next.js, Tailwind CSS
Tools: Git, Github, Docker, Vercel, Linux, Heroku, LaTeX, Supabase, tRPC, Figma, Turso, Drizzle ORM, Lucia

Work Experience

Undergraduate Teaching Assistant August 2023 - May 2024

University of Central Florida *Orlando, Florida*

- Lead teaching assistant for the introductory data structures course
- Coordinated lab lectures for over 5 sections and assignments for over 100 students and 5 lab sections
- Engaging with students through weekly office hours for assignment assistance.

Peer Tutor August 2021 - May 2022

Cypress Bay High School *Weston, Florida*

- Aided students in C and Java programming develop a solid understanding of the language.
- Provided students with resources in order to properly identify and solve problems, resulting in an average of 15% greater test scores
- Demonstrated how to implement complex data structures and algorithms into programs resulting in a 45% greater passing rate on assignments.

Projects

FEPrep | *Turborepo, Next.js, TypeScript, libSQL, tRPC, Drizzle ORM, Expo, Lucia, React Native, TailwindCSS, Vercel*

- Developed the back-end of an educational platform with 200+ daily users to study for the FE Exam at UCF.
- Implemented a end-to-end typesafe libSQL API using tRPC, Drizzle ORM and Zod.
- Adapted endpoints to optimize query speed by 26% and reduce total API calls by 33%
- Increased server-side component efficiency by caching results to be reused on subsequent requests.

Review Summarizer 9000 | *React, Next.js, Typescript, Tailwind CSS, Express.js, Puppeteer, GPT3.5*

- Awarded 1st Place in Microsoft & RBC's Challenge at KnightHacks 2023.
- Optimized data pipeline speed from the webscraper to client-side injection by 18%
- Designed Landing Page and Injected User Interfaces using TailwindCSS.
- Pioneered functionality allowing our team to write React Components using TailwindCSS and TypeScript that could be injected into any website regardless of support.

Handy Dollar | *React, Next.js, TypeScript, Tailwind CSS, Azure AI Vision, PostgreSQL, Supabase, Plaid API, GPT3.5*

- Awarded 2nd Place in Google's Empowering Learners with Technology challenge at ShellHacks 2023.
- Led development in implementing the database, user authentication, and API.
- Implemented user authentication using Supabase Auth and OAuth2 social providers
- Utilized Azure's AI Vision and OpenAI's ChatGPT API to seamlessly extract and correlate receipt data with bank transactions.
- Leveraged GPT3.5 and Supabase Buckets to cache responses and reduce API calls.

DealDetector | *Python, Discord.py, BeautifulSoup*

- Utilizes the Requests and BeautifulSoup libraries to monitor online retailers to extract item titles and prices.
- Leverages the discord.py library to connect to Discord's API and send alerts to users through designated channels.
- Enables users to monitor prices in real-time and sends alerts when they meet desired thresholds.

Organizations

Knight Hacks | *Member*

- ShellHacks 2023 Winner: HandyDollar