

# Daniel Palma

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## EDUCATION

### University of Central Florida

B.S in Computer Science, Minor in Mathematics 3.9/4.0 GPA

May 2026

Orlando, Florida

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

## TECHNICAL SKILLS

**Languages:** Python, Java, TypeScript, JavaScript, Rust, C, C++, C#, SQL, Haskell, OCaml, HTML, CSS

**Frameworks:** React, Node.js, Next.js, TailwindCSS

**Tools:** Git, Github, Docker, Vercel, Linux, Heroku, LaTeX, Supabase, tRPC, Figma, Turso, DrizzleORM, Lucia

## WORK EXPERIENCE

### Software Engineering Intern — Design, Processes & Tools

May 2024 - January 2025

*The Boeing Company*

*St. Louis, Missouri*

- Pioneered development of SuperBSQL, a complete workflow automation to completely eliminate manual data processing between databases using Python enabling secure & efficient data transfers
- Designed an instantaneous pipeline that transforms customer datasets using Pandas into acceptable PL/SQL formats and increases engineer's focus times by 250+ hours a year
- Established robust error handling, reporting & logging with automated email alerting using SMTPLib

### Software Development Lead

August 2023 - Present

*KnightHacks*

*Orlando, Florida*

- Architected and implemented a comprehensive monorepository system, integrating three full-stack applications serving 3000+ users.
- Spearheaded the development of shared UI components, databases, and APIs across multiple applications, reducing latency by 60% and enhancing system efficiency
- Architected and deployed a cutting-edge, fully serverless infrastructure leveraging Cloudflare Workers and Turso, powering diverse applications including a club site, admin tool, and hackathon website reducing costs by 94%

### Lead Undergraduate Teaching Assistant

August 2023 - May 2024

*University of Central Florida*

*Orlando, Florida*

- 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
- Designed automated tools using Rust and Python to streamline parsing & grading of 1600+ C scripts

## 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 14% by caching results to be reused on subsequent requests.

### Review Summarizer 9000 | *React, Next.js, Typescript, TailwindCSS, 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, TailwindCSS, 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.