Paul Colandrea

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Education

University of Central Florida — Orlando, FL
Bachelor of Science in Computer Science, Dean's List (20/21), 3.68 GPA — *Aug. 2019 – July 2021*

Daytona State College — Daytona, FL
Associate's in Art, 3.3 GPA — *Aug. 2017 – May 2019*

Experience

Byte Federal — April 2021 – Present
Software Engineer — *Sarasota, FL*

- Collaborated on developing ByteWallet, a React Native based non-custodial crypto banking wallet, serving thousands of users globally.
- Led team in implementing "bank in a box" features enabling users to open US bank accounts, perform financial transactions, and purchase cryptocurrency within the app, driving a 180% growth in mobile sales.
- Oversaw the implementation of user experience enhancements, resulting in a 25% increase in user engagement and a 15% decrease in customer support tickets related to app usability issues. Notably, the addition of Ethereum and Litecoin support expanded the user base by 25% and boosted transaction volume by 20%.
- Developed a cross-platform Flutter app for internal use, which significantly increased driver efficiency in repairing ATM machines and decreased total drive time.

Projects

Yappy Hour | *React Native, Cloudflare, Pinecone*

- Engineered Yappy Hour, a React Native app with Cloudflare Workers backend, enabling users to discover & share live, AI-powered deals using natural language processing for enhanced conversational search.
- Scaled to nearly 1,000 active users, leveraging cloud-based infrastructure and optimized database performance for real-time, community-driven updates and voting on local drink and food specials.
- Integrated user-contributed content workflows with automated AI processing for parsing menu images and geotagging, ensuring an intuitive and dynamic experience for discovering and sharing deals.

MiSu Home | *React Native, AWS, Home Assistant*

- Facilitated external access control sharing for IoT devices via a React Native app, prioritizing user convenience and safety, as part of a Mozilla-sponsored capstone project.
- Implemented hub-to-router connection for MiSu, allowing homeowners to personalize IoT access control and invite guests on a permission-by-permission basis.
- Utilized React Native, Redux, AWS Lambda, AWS Amplify, DynamoDB, and Home Assistant to create a seamless user experience by integrating various smart home devices and automating control features.

WhaleWar | *NextJS, TRPC*

- Created a free trading simulation website, similar to fantasy football, where users can challenge friends and compete for the highest profit over a specified time period.
- Developed a robust game engine enabling hundreds of users to customize their game by setting profit limits, leverage stocks or crypto, or determining game length.
- Designed a dynamic leaderboard tracking user performance, awarding monthly milestones to top-performing users, promoting engagement and competition.

Blubber | *React Native, Expo*

- Developed the Blubber app, a cheeky open-source fitness app for tracking weight and diet satisfaction, enhancing user engagement with a humorous, minimalistic interface designed for iOS and Android.
- Key features including effortless daily weight tracking, diet satisfaction logging, and photo uploads to visually document progress, making the experience both functional and enjoyable for users.

Technical Skills

Languages: Typescript, Javascript, Python, Dart, PHP, Java, SQL, noSQL
Frameworks: NextJS, React, React Native, Flutter, Express, Django, Flask, FastAPI, HonoJS