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
Lead Software Engineer — *Sarasota, FL*

- As a member of the development team, I contributed to the creation of ByteWallet, a non-custodial crypto banking solution built with React-Native..
- Spearheaded the implementation of "bank in a box" features, allowing users to open a US bank account and perform financial transactions such as sending funds and purchasing cryptocurrency directly within the app
- Managed the successful integration of Ethereum and Litecoin into ByteWallet, as part of the efforts to enhance user experience and improve overall functionality and usability
- Created a cross-platform Flutter application for internal use, resulting in a significant boost in the efficiency of drivers in repairing ATM machines. This app reduced total drive time while exponentially increasing productivity.

Projects

MiSu Home v2 | *Capstone Project*

- Built a React Native application focused around the sharing of access control to IoT devices with users outside of their own home.
- Users first connect a hub to the router, thus allowing the IoT devices to connect to MiSu. From then on, homeowners have the ability to fully customize access control how they want, when they want. This includes the ability to invite guests on a permission-by-permission basis to access your devices.
- Technologies included React Native, Redux, AWS Lamda, AWS Amplify, DynamoDB.

WhaleWar | *NextJS, TRPC*

- Designed & built a free trading simulation website where users invite, then challenge friends to battle for the most profit during a specific time window.
- Developed underlying game engine which allows users to set profit limit, trade stocks and/or crypto, and finally set game length
- Implemented leaderboard which tracks performance on per-user basis, monthly milestones awarded to top users

Malignant Tumor Detection | *Python, Tensorflow*

- Developed a fully-functioning model using the Naive Bayes algorithm that can correctly determine probability patient has malignant tumor
- Features include data from patients EHR, such as: radius, surface area, texture, concavity, exc.
- Achieves 96% accuracy

SignRWC | *nodeJS, Typescript, React*

- In a school of 60,000, 100 gym slots an hour fills up quick. SignRWC allows users to skip the process of reserving a spot in the gym by reserving a selected time slot automatically.
- Users select a time and the application will sign the user up at the selected time whenever the slot becomes available (24hrs before).
- Uses Cron jobs as to not unnecessarily keep refreshing UCF web-servers.

Technical Skills

Languages: Java, Javascript, Typescript, Swift, Python, PHP, Java, HTML/CSS, SQL, noSQL
Frameworks: React, React Native, Flutter, nextJS, Express, Django, Flask, FastAPI