

EDUCATION

University of Central Florida

Bachelor of Science in Computer Science

August 2016 – July 2021

Overall GPA: 3.3

EMPLOYMENT

Byte Federal | Software Engineer

June 2021 – Current

- Architected internal monitoring timeline for reading in real time triggers from MySQL DB using binlogs and sockets in a Node.js app to display ATM events in a real time client side React application
- Added banking features to [Byte Wallet](#) mobile application with API routes in Python Fast API and developed React Native pages in Typescript with logic for Android and iOS. Introduced ACH payments, interbank payments and wire transfers between bank accounts, including Plaid API banking integrations
- Created Electrum RPC crypto transaction builder ([Pebas](#)) and broadcaster for bitcoin, litecoin and marscoin using Node.js as a server to directly post inputs and outputs through to Electrum RPC

Delta Air Lines | Software Engineer Co-Op

May 2019 – June 2021

- Automated processes and developed tools in VBA & Python to save man hours by streamlining data retrieval processes by 50%
- Maintained internal business applications using SQL and Access VBA to have current applications up to date and develop upgrades per our customers needs
- Analyzed and queried data using PDB2, Python (Pandas) & SQL to create statistical analysis on projects for continuous improvements within the company

AMD | Debug & Validation Intern

January 2020 – June 2020

- Established web application using Python (Flask) and PostgreSQL database to monitor OS processes during software testing for metrics
- Developed scripts in Python for load balancing queues to servers to improve speed and efficiency for testing portion of CI/CD pipeline

PROJECTS

[Martian Republic](#) | Full-Stack Developer | Open Source

April 2022 - Current

- Developed and designed client side [HD wallet](#) for Marscoin cryptocurrency. Users can authenticate and create a client side non-custodial wallet by leveraging bitcoin-lib.js and pbkdf2 to encrypt and decrypt in localstorage based on a user master password
- Architected proposal system protocol on the blockchain based on [Pebas](#) to construct transactions and broadcast them on chain. Proposal protocol is based on OP_CODE null transactions with users able to propose changes to DAO as well as vote on the proposals without the use of smart contracts

[MiSu](#) | Full-Stack Developer

January 2021-August 2021

- Created and used AWS Lambda functions & used AWS Dynamo, AWS AppSync and AWS Cognito for real time updates and user authentication on IoT based permissions application
- Developed customer facing frontend using React Native and Redux. Updated and overhauled legacy components and state management
- Re-designed the UI & UX of smart devices mobile application using Figma & Miro to design Lo-Fi, Hi-Fi and mockup designs.

[pubsub_tracker](#) | Front-End Developer | Open Source

January 2021-August 2021

- Worked with a back-end engineer to develop the front-end of a Publix sub notifier by using React.js and Bootstrap
- Used design fundamentals to produce clean UI/UX by using Figma for design and Trello for project management

SKILLS

Languages: English (Fluent), Spanish (Fluent)

Programming: Linux (Bash), Typescript, Python, Rust, React (Next.js), Java, C

Cloud: Docker, Digital Ocean, PostgreSQL, AWS (EC2, S3, DynamoDB),