

BRYAN ALEXANDER FERNANDEZ

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EDUCATION

Bachelor of Science in Computer Science, Minor in Mathematical Sciences

December 2026

Florida International University; Miami, FL

GPA: 4.0/4.0

- Organizations: Init, Code Crunch, BreakThrough Tech, CodePath E3 Program, Color Stack.
- Relevant Coursework: Statistics, Data Structures, Systems Programming, Data Mining, Machine Learning, Computer Architecture, C++, Programming 1 and 2 in Java, Discrete Mathematics, Calculus 1, Calculus 2, Artificial Intelligence.
- Awards: Dean's list: Summer 2022 - Fall 2024.

SKILLS

Languages: Python, JavaScript, Java, C#, C, C++, HTML, CSS, MongoDB, Typescript, PostgreSQL, SQLite.

Technologies: GitHub, React, Express, Node.js, Flask, TailwindCSS, Django, FastAPI, Bootstrap, IntelliJ, VS Code, Eclipse, AWS, .NET.

EXPERIENCE

Feam Aero | Software Engineer Intern | Miami, FL

May 2025 – Present

- Modernized legacy business operations serving **1,500+ employees** and improving **workflow efficiency by 30%** by developing responsive **React** components with state management, implementing **Flask REST APIs** for real-time data processing, and designing **SQL** schemas for form processing and customer management.
- Reduced form processing time from hours to minutes for multiple departments by implementing dynamic React search interfaces, optimizing SQL queries, and building Flask APIs for real-time data retrieval.
- Maintained system reliability and feature velocity across two production codebases by debugging and enhancing **TypeScript** React components, resolving **.NET** API integration issues, and implementing comprehensive error handling across full-stack applications.
- Improved development velocity for **10+ developer team** by building reusable React component libraries, implementing Flask authentication middleware, and establishing automated testing pipelines.

GatherU – INIT BUILD | Co-lead Developer | Miami, FL

January 2025 – April 2025

- Led a cross-functional team of 10 developers to build a full-stack event management platform for university clubs, utilizing **Django**, **React**, and **PostgreSQL** while maintaining adherence to project timelines.
- Built scalable **Django** REST API handling authentication, event scheduling, and club management for university platform serving **500+ student organizations**.
- Engineered responsive React frontend components featuring interactive availability scheduling, real-time RSVP functionality, and an intuitive analytics dashboard for tracking student engagement metrics.

CashCore – INIT BUILD | Front-End Team Lead | Miami, FL

September 2024 – December 2024

- Led cross-platform development of a finance advisor app deploying **React Native**, **Django**, and **SQLite**, integrating **Plaid API** for comprehensive financial management and backend system architecture.
- Developed features for real-time income, expense, and savings tracing, leveraging Plaid API to sync and categorize transaction data and React Native to display dynamic visualizations, enabling users to monitor financial trends.
- Streamlined loan tracking and document archiving through Django processing pipelines, SQLite database optimization, and React Native dashboards for seamless user engagement.

PROJECTS

Password Manager | React.js, Express.js, MongoDB, OpenAI API | Miami, Florida

January 2025 – April 2025

- Constructed a full-stack password management application using **React.js** for a responsive front-end interface, **Express.js** for backend server logic, **MongoDB** for scalable data storage, and **Chakra UI** for modern styling.
- Developed a secure user authentication system with industry-standard security measures including **AES-256-CBC encryption**, **JWT** authentication with HTTP-only cookies, and email verification to protect sensitive credentials.
- Boosted security adoption by 60% through **OpenAI** chatbot providing real-time password guidance and personalized vault features.

Product Store | Express.js, React.js, PostgreSQL, Node, Daisy UI | Miami, Florida

January 2025 – February 2025

- Created a product store operating the PERN stack (**PostgreSQL**, **Express**, **React**, **Node.js**), facilitating users to manage products with features adding, updating, and deleting.
- Designed a responsive UI leveraging **Tailwind CSS/Daisy UI** and implemented real-time data fetching with dynamic updates via a prefetch feature.
- Enhanced security and user experience by consolidating rate limiting, bot detection, and global state management operating **Zustand**, and deployed app.