

# Bryan Alexander Fernandez

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## EDUCATION

### Florida International University

Expected Graduation: December 2026

Bachelor of Science in Computer Science, Minor in Mathematical Sciences

GPA: 4.0/4.0

- **Awards:** ShellHacks 2025 – Top 10/245 teams (Multi-Agent AI Translation System)
- **Relevant Coursework:** Data Structures, Algorithms, Database Systems, AI, Machine Learning, Data Mining, Statistics
- **Organizations:** INIT, BreakThrough Tech, CodePath E3, Color Stack, SHPE

## EXPERIENCE

### Junior Software Engineer

August 2025 – Present

FEAM Aero

Miami, FL

- Improved workflow efficiency by **30% for 1,500+ employees** by developing billing and business rules modules in **React/JavaScript**, expanding digital platform coverage from initial mechanical workflows to multiple business departments.
- **Achieved company-wide platform adoption within 6 months** by building reliable React/Flask system with advanced search (**3 seconds vs legacy's 20+ seconds**), API integrations, and error handling that replaced legacy .NET/C# infrastructure.
- Accelerated development velocity for **6+ person team** by building reusable component libraries, **30+ Python unit tests**, and **automated CI/CD pipelines** using **Azure DevOps** for testing, deployment, and cloud storage.
- Cut billing document processing **from minutes to 20 seconds by developing automated PDF generator** for multiple D407 forms, streamlining invoice creation for **1,500+ employee aircraft maintenance operations**.

### Software Engineering Intern

May 2025 – August 2025

FEAM Aero

Miami, FL

- Reduced mechanic work order processing from **hours to minutes** by developing full-stack digitization system from scratch using **React, Flask**, and **SQL**, modernizing maintenance documentation workflow for aircraft servicing operations.
- Accelerated processing of **500+ daily D407 work orders** by restructuring single-page form into guided 4-step sequence, **reducing completion time and errors for mechanical documentation**.
- Accelerated workflow with **mobile-responsive React interface** that **loads instantly** versus 5-second legacy system, enabling mechanics to access forms via tablets and phones with **real-time search and validation**.

## PROJECTS

### AI Agent Translation Service | Google Cloud ADK, FastAPI, Gemini 2.0, Python

September 2025

- Placed **top 10 out of 245 teams** at ShellHacks by developing **multi-agent AI translation system** that processes entire websites, achieving **30% higher semantic accuracy** than Google Translate API baseline using **transformer models**.
- Architected **4-stage translation pipeline** (detection -> parallel translation -> quality review -> refinement) that reduced professional manual translation time from **days to under 10 minutes** per language.
- Built production **FastAPI backend** with RESTful endpoints and **async session management**, processing **100+ content items across 15+ languages** through **dynamically-scaling parallel agent execution** with **horizontal auto-scaling**.

### GatherU | Django, React, PostgreSQL

January 2025 – April 2025

- Delivered full-stack event management platform designed to serve **500+ university organizations** within **9 agile sprints** by **collaborating with 10 developers** to build Django REST API, React frontend, and PostgreSQL database architecture.
- Developed **10+ RESTful API endpoints** for authentication, event scheduling, and club management, **designed to scale for 500+ university organizations** with real-time RSVP tracking and collaborative filtering recommendations.
- Engineered responsive React components enabling real-time RSVP, interactive scheduling, and an analytics dashboard that improved **student engagement tracking** through gamified spirit points system.
- Implemented **collaborative filtering algorithm** analyzing user attendance patterns across events to generate personalized recommendations, alongside **Selenium-based web scraper** for automated event imports from external platforms.

### CashCore | React Native, Django, Plaid API, SQLite

September 2024 – December 2024

- Co-led development of cross-platform finance advisor app using **React Native, Django**, and **SQLite**, integrating Plaid API for secure financial data synchronization across **5+ RESTful API endpoints** over **9 agile sprints**.
- Built **10+ reusable React Native** components for real-time income, expense, and savings tracking, enabling users to monitor financial trends through dynamic visualizations across iOS and Android platforms.
- Streamlined loan tracking and document archiving by implementing Django processing pipelines and SQLite optimizations, improving system performance and **user engagement** through intuitive mobile interface.

## SKILLS

**Programming Languages:** Python, Java, JavaScript, TypeScript, C++, C, C#, HTML, CSS

**Frameworks & Libraries:** React, Node.js, Express, Flask, Django, FastAPI, Bootstrap, Tailwind CSS

**Databases:** PostgreSQL, MongoDB, SQLite, Microsoft SQL Server, MySQL

**Tools:** GitHub, .NET, Docker, Google ADK, Pydantic, Vite, Azure, Linux, Postman, Object Oriented Design, Figma, Claude/Claude Code