Franklin Neves Filho

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EDUCATION

Florida International University   **Miami, Florida**
Bachelor of Science in Computer Science   *expected May 2025*
Relevant Coursework:
Data Structures and Algorithms, Software Engineering (I & II), Databases, Machine Learning, AI, Net-Centric Computing
Computer Architecture,

CERTIFICATIONS, SKILLS & INTERESTS

Certifications & Licenses: Docker Essentials, SQL and Relational Databases, Codepath TIP 101, React Native
Organizations: INIT, INIT Ignite, CodePath, Shellhacks
Software: Java, Python, Javascript (JS), Typescript (TS), React, Angular, Docker, Postman, MySQL, Maven, Git, Node
Language: Fluent in Portuguese, and English, intermediate proficiency in Spanish

EXPERIENCE

Vertilux   **Miami, FL**
Product Development Technician   *Oct 2023 – Present*
- Provided critical support to the product development leader by organizing and prioritizing tasks, improving project execution timelines by optimizing resource allocation and task management.
- Created and refined technical documents, improving clarity and accuracy, which reduced the back-and-forth between stakeholders by **30%**.
- Utilized **CAD** software to assist in the design and development of new products, resulting in a **20%** enhancement in design precision and efficiency.
- Coordinated with external organizations, streamlining communication on projects, which decreased project lead time by **25%**.

PROJECTS

Outfit Finder   **May 2024 – Present**
- Developed a personalized outfit recommendation system using **K-Nearest Neighbors** (KNN) to suggest clothing items based on a user's wardrobe.
- Analyzed patterns within the Product Images Dataset to create a **probability matrix** predicting the optimal usage of each clothing item.
- Built a **microservice** framework using a custom **FastAPI** extension for advanced request validation, enhancing the flexibility and scalability of the outfit recommendation system.

Franklin-Fastapi-Extension   **May 2024 - June 2024**
- Built a Python library extending FastAPI to improve request validation, addressing issues with default failure responses.
- Replaced standard Pydantic validation with a simpler, more flexible approach, improving response handling and reducing validation complexity.
- Increased development speed by **45%** by streamlining the validation process and reducing code overhead.

Vertilux Blind Calculator   **March 2024 – Present**
- Engineered a responsive web application using **TypeScript** and **React** to streamline the blind selection process, leveraging Vertilux's vast database.
- Developed the backend in Java with Spring Boot, implementing formulas to calculate tube deflections and fabric roll-up, optimizing material performance.
- Improved shade fabrication efficiency by **63%**, ensuring structural integrity and enhancing overall material utilization.

DemoED   **Jan 2024 – May 2024**
- Spearheaded a team of 5 in the design, development, and documentation of a custom activity creation tool for a university's educational platform, leveraging **MongoDB**, **React**, and **JavaScript**.
- Successfully implemented a feature allowing educators to create a tailored drag-and-drop activity, enhancing the learning experience for students.