

# Franklin Neves Filho

franklin.neves.filho@gmail.com | linkedin.com/in/franklinnevesfilho | franklinnevesfilho.com

## EDUCATION

**Florida International University** | Miami, Florida  
*Bachelor of Science in Computer Science*

**Graduation May 2026**

**Relevant Coursework:** Data Structures, Algorithms, Software Engineering II, Database Management, Machine Learning  
**Organizations:** Break Through Tech, SHPE, ICPC, INIT, CodePath, Shellhacks

## PROJECTS

**Vertilux Blind Optimizer** | *Java, Springboot, React, Typescript*

**March 2024 – Present**

- Achieve a **13% increase** in company sales by streamlining communication between engineers and sales teams, reducing inefficiencies, and improving collaboration.
- Develop a scalable API using microservice architecture, enabling seamless integration across multiple company applications to enhance system interoperability.
- Engineer the backend in **Java** with **Spring Boot**, implementing advanced algorithms for tube deflection and fabric roll-up calculations, significantly improving material efficiency and performance.

**Outfit Finder** | *React Native, Python, Sci-kit, FastApi*

**April 2024 – July 2024**

- Developed a personalized outfit recommendation system using **K-Nearest Neighbors** to suggest clothing items based on a user's wardrobe, improving user engagement.
- Built a **microservice framework** leveraging a custom FastAPI extension for advanced request validation, enhancing scalability and system flexibility.
- Designed and developed a cross-platform user interface with **React Native**, ensuring a seamless user experience on both **iOS** and **Android** devices.

**Franklin-Fastapi-Extension** | *Python, FastAPI*

**May 2024 - June 2024**

- Increased development speed by **45%** by streamlining request validation with an inbuilt class validator, reducing code overhead and improving efficiency.
- Built and published a Python library extending **FastAPI** to enhance request validation, resolving limitations with default failure responses through custom error messages.
- Authored comprehensive documentation, including usage examples and API references, to simplify adoption and improve the developer experience.

## EXPERIENCE

**INIT IGNITE** | Miami, FL

**October 2024 – Present**

*Computational Thinking Teacher*

- Deliver weekly lessons to **25** children, introducing core computer science concepts in Python to build foundational programming skills and improve problem-solving abilities by **25%**, measured through assessments.
- Engage in weekly cross-school meetings with **40** teachers to refine teaching strategies, improving curriculum effectiveness by **13%** and tailoring instruction for diverse learning styles.
- Collaborate with a team of 3 co-teachers to foster an engaging and inclusive learning environment, boosting student engagement and inspiring students to explore coding concepts while developing technical resilience.

**VERTILUX** | Miami, FL

**October 2023 – Present**

*Product Development Technician*

- Coordinate with external organizations, streamlining communication and decreasing project lead time by 21%
- Utilize CAD software to assist in the design and development of new products, achieving a 16% improvement in design precision and efficiency.
- Create and refine technical documents, enhancing clarity and accuracy, which reduces the back-and-forth between stakeholders by 13%.

## SKILLS & CERTIFICATIONS

**Programming Languages:** Java, Python, Javascript, Typescript, Kotlin, MySQL

**Frameworks / Tools:** React, React Native, Angular, Docker, Git, Postman, Maven, Node, MongoDB, FastApi, Flask

**Certifications & Licenses:** AWS Cloud Practitioner, IBM Docker Essentials, IBM SQL and Relational Databases

**Languages:** Portuguese, Spanish and English