

TOBIAS FREIRE

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EXPERIENCE

Active Member at CortechX João Pessoa, PB Jul 2025 – Present
CortechX is the Human-Computer Interaction academic league at the Federal University of Paraíba (UFPB), dedicated to technological development and applied research on how humans interact with computer systems. Our work explores areas such as Artificial Intelligence, Machine Learning, Large Language Models (LLMs) and emerging technologies. Projects I developed until now:
- Gestok: a web-based product management application with an integrated chatbot, allowing business owners to quickly and easily manage their inventory. The technologies used were: PostgreSQL, Docker, Python, Django, TypeScript, Next.js, and the OpenAI API.

Software Engineering Intern at Synchro - Tax Solution Remote May 2025 – Present
Working with Java, Spring Boot, TypeScript, React, relational databases, agile methodologies and Docker.

Software Development Intern at INOVATEC-JP João Pessoa, PB Jul 2024 – Jun 2025
- Developed a solution for the Social Development Department of João Pessoa, optimizing the management of humanitarian aid. This initiative reduced citizen response time, benefited over 12,000 people, and generated savings exceeding 1.5 million BRL. Leveraged Oracle APEX, Oracle Database, and Spring Boot RESTful APIs for seamless integration.
- Engineered the SiCAPS system for PROCON João Pessoa, transforming price research by replacing manual processes with a mobile solution. This innovation cut research time from two weeks to two days, reduced errors by 20%, and enhanced report structuring. Technologies included Oracle APEX, Oracle Database, and Spring Boot RESTful APIs.
- Created a high-performance print server for dynamic report generation, fully integrable with Oracle APEX. This solution accelerated report creation by 90%, enabling direct data extraction from predefined queries without manual intervention. Done using Spring Boot for development of RESTful APIs, Jasper Reports, Docker-based containerization and tests with Postman.
These projects gained international recognition from Oracle, being featured on their blog: [See the blog here](#)

Fullstack Intern at LUMO Laboratory João Pessoa, PB Mar 2024 - Jun 2024
Developed new features, responsive pages, and fixed bugs in the existing SisEnex application, a platform used to support the presentations of more than 700 research and extension projects that occur annually at my university (UFPB). Because of my proactivity, I was elected leader of the frontend team. Being part of this project gave me strong skills in communication, handling legacy codes, code documentation and reading, Scrum, and technologies such as Docker, React, Node, TypeScript, and PostgreSQL.

TOOLS AND INTERESTS

Programming Languages: Java, Python, TypeScript, JavaScript, SQL

Frameworks & Tools: AWS, SpringBoot, FastAPI, Docker, Oracle Apex, Relational databases (Oracle and PostgreSQL), Non relational databases (MongoDB), Messaging (Apache Kafka and RabbitMQ), Node, React, Linux, Git

Interests: RESTful APIs, Artificial Intelligence/Machine Learning/LLMs, Microservices and Software Architecture

Soft Skills: Agile Methodologies, Collaboration, Communication, Innovation, Problem-Solving, Adaptability, Teamwork, Proactive Learning

EDUCATION

Bachelor of Computer Science, Federal University of Paraíba June 2023 - Present
Expected Graduation: 2027

Relevant Coursework: Introduction to Artificial Intelligence, Data Structures and Algorithms, Software Engineering, Functional Programming, Operating Systems, Computer Networks