PABLO SANTIAGO

Computer Engineering Student | Full Stack Developer & DevOps Enthusiast

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PROFESSIONAL SUMMARY

Computer Engineering student and certified IT Technician with a solid foundation bridging hardware and software. Experienced in **Full Stack Development** (Next.js, TypeScript, Node.js) and **IoT/Embedded Systems** (C++, ESP32). Currently expanding expertise in **DevOps**, focusing on automation, infrastructure, and CI/CD pipelines. Passionate about building scalable solutions and optimizing system performance.

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, C++, Swift, Kotlin, SQL.

Front-End: React.js, Next.js, HTML5, CSS3, Tailwind CSS.

Back-End & Database: Node.js, .NET Core, PostgreSQL (NeonDB), Firebase.

DevOps & Tools: Docker, Linux, Git/GitHub, CI/CD Concepts, IoT (ESP32/Arduino).

PROFESSIONAL EXPERIENCE

Full Stack Developer | Freelance   *Jan 2023 – Present*

- Manage the complete software development lifecycle, delivering custom web solutions using React and Node.js.
- Develop scalable interfaces and integrate RESTful APIs for various clients.

ICT Mentor | IRede   *Nov 2024 – May 2025*

- Developed Python scripts to automate data analysis and report generation, increasing operational efficiency by over 50%.
- Maintained interactive dashboards for educational project management and provided technical support to students.

IT Assistant | IFCE (Federal Institute of Ceará)   *Jan 2023 – Dec 2023*

- Provided technical support for hardware/software in labs, ensuring high availability of resources for academic activities.

KEY PROJECTS

Molecule Database App   *Full Stack Web*

- Built a scientific cataloging application using **Next.js** and **TypeScript**.
- Integrated **NeonDB (Serverless PostgreSQL)** for efficient and scalable data management.
- Implemented modern UI/UX principles for complex data visualization.

IoT Beehive Monitor   *Embedded Systems / IoT*

- Designed a remote monitoring system for beehives using **ESP32** microcontrollers.
- Programmed in **C++** to collect real-time sensor data (temperature, humidity, weight) and transmit to a cloud dashboard.

Desmorona Brasil *Mobile iOS*

– Developed a native iOS application using **Swift** as part of the Apple Academy program.
– Focused on accessibility and intuitive user experience for educational purposes.

EDUCATION

Bachelor of Computer Engineering (Ongoing) | IFCE *Expected: Dec 2028*

Technical Course in Informatics | IFCE *Completed: Dec 2023*