

# Joao Pereira

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## Skills

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**Programming Languages:** Python, Java, Golang, TypeScript, JavaScript, Zsh, Bash, Yaml

**Frameworks & Libraries:** React, Nextjs, Nodejs, Express, Flask, SCSS

**Tools & Technologies:** Git, Linux, AWS, PTC, REST APIs, SQL, GraphQL, Agile Methodologies, Jenkins

## Experience

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**Associate Applications Developer**, Concurrent Engineering

October 2023 - Present

- Developed and maintained PTC customizations for products using Java, SQL, and REST APIs to create applications and custom extensions.
- Utilized Next.js to build a large-scale dashboard site with over 122 pages, improving data visualization and user experience.
- Created internal CLI tooling using Python to streamline development processes and increase team productivity.
- Collaborated with cross-functional teams to integrate custom solutions with existing PTC products.

**Software Developer Intern**, Klas Telecom

March 2022 - August 2022

- Worked with an Agile team and developed and maintained features for a network monitoring web application built with React and Python.
- Supported comprehensive application and API testing, utilizing tools such as Jenkins, Selenium, and Postman, further contributing to the development of API endpoints.
- Managed system configuration files to maintain network devices and host settings.
- Engaged in regular team collaboration meetings such as stand-ups and retrospectives, as well as documenting and performing tests using TestRail.

## Projects

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**Fileflo - Secure File Storage and Sharing Web Application**

- Architected and developed a full-stack application for secure file storage and sharing, focusing on sensitive data protection.
- Implemented a React/Material UI frontend, Node.js/Solidity smart contract backend, and Flask/Python for file encryption.
- Designed a comprehensive AWS architecture using 10+ services including S3, Lambda, KMS and DynamoDB for scalability and security.
- Integrated AES and RSA encryption methods, ensuring rapid and secure file transfer and storage.

**Personal Website Portfolio**

- Designed and developed a responsive personal website using Next.js, TS, Framer Motion and GSAP to showcase professional skills and projects.
- Implemented modern web development practices, including SEO optimization and accessibility standards.

**Venato Mobile Bike Tracking**

- Led the development of an Android application using React Native for the frontend and Python for the backend to help users locate stolen bikes.
- Integrated AWS services with an IoT GPS/GSM module, configured through Arduino IDE, for real-time tracking.
- Implemented geolocation features and push notifications to enhance user experience and tracking efficiency.

## Certifications

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**PTC**

- ThingWorx Associate Certification Exam 2023
- ThingWorx Model Professional Associate Exam 2024
- ThingWorx Deploy Professional Associate Exam 2024
- Kepware Associate Certification Exam 2024

## Education

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**Dublin City University** - Bachelor of Science in Computer Applications and Software Engineering - 1.1