Joao Pereira

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Skills

Programming Languages: Python, Java, Golang, TypeScript, JavaScript, Zsh, Bash, Yaml
Frameworks & Libraries: React, Nextjs, Nodejs, Express, Flask
Tools & Technologies: Git, Linux, AWS, PTC, REST APIs, SQL, GraphQL, Docker, Jenkins

Experience

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

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

PTC
• ThingWorx Associate Certification Exam 2023
• ThingWorx Model Professional Associate Exam 2024
• ThingWorx Deploy Professional Associate Exam 2024
• Kepware Associate Certification Exam 2024

Education

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