JOAO PEREIRA

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Education_____

B.S. in Computer Applications and Software Engineering   Graduated: 05/2023

Dublin City University   Grade : 1.1

Coursework: Operating Systems; Databases; Advanced Algorithms and AI Search; Programming Languages; IT Architecture; Computer Networks; OO Analysis and Design; Data Warehousing and Data Mining;

Skills_____

- **Languages:** Python, C, Java, JavaScript, HTML, CSS, Lua, Zsh, Bash, Yaml
- **Technologies:** React, Material UI, Bootstrap, Node, Express, Flask
- **Tools:** Git, GitHub/Gitlab, Linux, AWS Services, CICD, REST APIs, GraphQL, Agile Methodologies, Jenkins, Selenium

Professional Experience_____

Klas Telecom | Software Developer Intern   *Dublin*   03/2022 – 08/2022

- Collaborated with an agile team to develop and maintain features for a network monitoring web application using React and Python.
- Assisted in testing the application and internal API using Jenkins, Selenium, and Postman, and contributed to the creation of API endpoints.
- Managed system configurations using config and YAML files for network devices and hosts.
- Documented and tested tasks using TestRail and participated in regular stand-ups and retrospective sessions for effective team collaboration.

Projects_____

Fileflo | *GitHub Link*

- Developed a secure file storage and sharing web application focused on sensitive data protection.
- Designed a user-friendly and interactive interface for researchers using **ReactJS** and **Material UI**.
- Built a robust **AWS** architecture utilizing services such as S3, CloudFront, EC2, AppSync, DynamoDB, KMS, Lambda, API Gateway, Cognito, Amplify, SES and CloudWatch for optimal support and complexity.
- Implemented the backend with **Node.js**, **Truffle**, and **Ganache** to interact with Solidity smart contracts on a private Ethereum blockchain.
- Ensured efficient and rapid file encryption using AES and RSA methods through a **Flask/Python** backend.

Venato Mobile Bike Tracking | *GitHub Link*

- Implemented an **Android** application with a **React** front-end and a **Python** back-end to aid users in locating their stolen bikes.
- Utilised **AWS** services and an **IOT** GPS/GSM module which is configured through the **Arduino IDE**.

CPU Scheduler | *GitHub*

- A CPU scheduling program which implements the usage of created algorithms in **C**: First Come First Serve, Shortest Job First, Round Robin and Priority.
- This program calculates the speed of each algorithm and therefore demonstrates which algorithm is suited for different CPU Scheduling processes.

Co-Curricular Activities _____

Society Member | Redbrick   10/2019 - Present

- Attended numerous technology-focused events to stay abreast of industry developments and emerging trends.