JOE MOON WHITEHEAD

********, London • joewhiteheadm@gmail.com • (+44) **********

joemoonwhitehead.com • linkedin.com/in/joe-moon-whitehead • https://github.com/heymoonman

PROFESSIONAL EXPERIENCE

PAYFIT

Product Builder   FEB, 2024 - PRESENT

- Designing & developing **B2B payroll user experiences** with a focus on the UK market
- Became **principal developer** for our integrations pipeline service, connecting third-party HR solutions to our product with a two-way data flow developed and maintained in **Python**
- **Improved external integrations visibility** by providing in-app feedback on the state of external data sync processes, whilst also highlighting any permissions issues to **improve user autonomy**
- **Mitigated damage** caused by an incorrect & complex statutory sick pay calculation through quick investigation and deployment of a patch, then going on to lead the post-incident investigation to thoroughly remediate problems caused for customers
- Developing new integrations for accounting & payments partners in **TypeScript**, hosted in **AWS**, that automate manual processes to reduce strain for the customer success team and improve user confidence

INSYTEGROUP

Software Engineer   SEPT, 2022 - SEPT, 2023

- Developed **Dockerized RESTful API** backend and cloud services in **Python** as one of two primary developers with a small **agile** team for an electric maritime vehicles client that continually monitored the client's proprietary electric batteries
- Ensured services **captured and processed 100% of the per-second data** from the IoT devices to guarantee a reliable history for each individual device
- Wrote **Python API services** that were hosted in **Microsoft Azure** and performed data ingestion, data processing and data storage & retrieval, processing 1000s of data documents per day
- Experience with **FastAPI**, **MongoDB**, **React**, **Docker**, and **Pytest** to write production-ready applications
- Wrote **unit**, **integration**, and **end-to-end test cases** with **Pytest** on new and existing repositories to secure 90%+ test coverage, integrating this testing ethos into our **CI/CD with GitLab**
- **Refactored 1000s** of lines of code in **3 months** to improve modularity, testability, and readability

EDUCATION

LANCASTER UNIVERSITY   Lancaster, England

Computer Science BSc (Hons)   2019 - 2022

- Achieved **2:1** (*69%*)
- Coursework: Artificial intelligence, Algorithms, Distributed Systems, Operating Systems, Cybersecurity, Embedded Systems, Software Design

SKILLS

Python, Java, JavaScript/TypeScript, Golang, C, Scala, FastAPI, Django, React, Microsoft Azure, AWS, Docker, MongoDB, SQL, Git, GitLab CI/CD, Pytest, Unix (Ubuntu & Debian), Postman

TECHNICAL EXPERIENCE

The King Dorian - A side-scrolling platformer (**JSFML**)

- **Developed and tested** a **fully-featured platformer** using **Java** and the **JSFML** multimedia library
- Included varied **enemies**, **environments**, **difficulties**, and a **high score system**
- **Managed** teammates in a **remote** setting, assigning roles and tasks to **simplify development processes**

Pybadcomments - A Python code comment linter

- A fast and easy-to-use code linter that scans a project for Python files, tokenizes their contents, and evaluates all programmer comments for any banned phrases or words
- Usable as a standalone linter package along with **pre-commit support** for automated linting on Git commits