Afonso Miguel Capela Flores De Carvalho

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Education

University **Expected Graduation: June 2027**

*BSc Computer Science — **Expected First class honours*** *University of Leicester*

- UoL Boxing Society — **Events Coordinator**
- Relevant Courses: Data Structures Algorithms, Data Analytics, Object-Oriented Programming, Operating Systems, Computer Architecture, Intro. to Mathematics, Project Management, Software Architecture

Work Experience

Greggs **Nov 2023 – July 2024**

Team Member *Reading, Berkshire*

- Operated in a fast-paced retail environment serving **200+ customers daily**, managing inventory, cash handling, and maintaining operational efficiency during peak hours
- Contributed to store achieving **Best Store award** and maintaining **85%+ customer satisfaction score** through consistent adherence to quality standards and collaborative team problem-solving
- Adapted quickly to changing demands and shift patterns while balancing full-time university studies, demonstrating strong time management and work ethic

Cognivue - AI Video Intelligence Platform | *Source Code* **Sep 2024 – Present**

Co-Founder & Lead Developer

- Architected and developed the complete **React.js frontend dashboard** for a multimodal AI platform that converts videos into structured insights using **Whisper**, **Hugging Face Transformers**, and **OpenCV**
- Optimized backend video processing pipeline by implementing **parallel processing** and **GPU acceleration**, reducing audio transcription and summarization time by **74%** for the **Flask REST API**
- Integrated multiple AI models including speech-to-text, object detection, sentiment analysis, and topic extraction with **NLP** techniques, enabling users to extract actionable insights from video content

Projects

Github Analyzer | *Website* | *Source Code* **ReactJS | Flask | Python**

- Developed and deployed a **full-stack web application** that analyses the repository of a user's choice
- Utilized caching for quick, small data storage, **Flask** for a **REST API** backend, and **ReactJS** for the user interface

FinancePal | *Website* | *Source Code* **HTML | CSS | JavaScript**

- Engineered a personal finance management web application featuring **financial health scoring**, interactive **Chart.js** analytics dashboard, and budget tracking with real-time balance calculations
- Implemented **local storage persistence** and responsive glassmorphism UI design, demonstrating strong fundamentals in **JavaScript** and modern **CSS3** techniques

IronLedger - Gamified Fitness Tracker | *Source Code* **React Native | TypeScript | Supabase**

- Built a comprehensive iOS fitness tracking application with **real-time workout sessions**, advanced analytics using **interactive charts**, XP leveling system, and social leaderboards with **Supabase** backend
- Architected complex state management for **live workout tracking**, exercise library integration, and multi-user data synchronization, demonstrating proficiency in **React Native** and **mobile development**

Leadership

Combined Cadet Force | *Cadet sergeant* **Sept 2020 – July 2024**

- **Promoted three times to cadet sergeant** within 2 years for strong initiative and consistent excellence
- Spearheaded a team of **9+ cadets** to **podium finishes in 80%** of competitive events, including team-working, marksmanship and problem-solving events

Technical Skills

Languages: Python, JavaScript, TypeScript, Java, SQL, HTML5, CSS3

Developer Tools: Git, Postman, Supabase, PostgreSQL

Frameworks & Libraries: React, React Native, Flask, Node.js, Express, Chart.js, Material-UI