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Jeremy Ockenden

About me

Computer Science graduate from the University of Bath with a strong technical foundation in Python and experience developing robust backends and data pipelines. Proficient in building and integrating RESTful APIs using FastAPI and Flask, and managing scalable database services with SQL and Supabase. A collaborative engineer, skilled in Agile/Scrum environments and version control via Git.

I am a big music lover! During school I played trumpet in the Brass Symphony. Since then my music taste has somewhat evolved and so have the instruments that I play. At university I played bass and guitar in a rock/metal band, we performed live multiple times at Moles (regrettably has shut down since) and on campus as part of the Music Society. I play guitar, bass and even the drums almost daily and have written somewhat listenable music. I also love to fish, swim, surf - anything by the sea! I am also a huge fan of boardgames and pub quizzes!

Employment

Freelance Data Engineer @ Code Magus | July 2026 – Present

- Conducted extensive literature research and co-authored the project proposal to evaluate Sentinel-2 multi-spectral satellite imagery as a geopolitical tool for tracking service delivery in South African metros.
- Engineered scripts to automate the bulk downloading, cleaning, and preprocessing of high-resolution time-series satellite images into a date-structured server repository for downstream analysis and future predictions.
- Trained and validated a Random Forest machine learning model on preprocessed satellite datasets to classify and evaluate urban service delivery patterns.
- Currently drafting the research paper detailing the data pipeline architecture, preprocessing methodology, and model results.

Freelance Data Engineer @ Code Magus | October 2024 – April 2025

- Designed and implemented a relational SQLite database to centralize 20+ years of historical and real-time stock market data, moving the company from manual data lookups to a proprietary data asset.
- Engineered a historical data migration script that successfully processed and cleaned two decades of financial records, managing high-volume data insertion and ensuring schema integrity.
- Developed a custom ETL (Extract, Transform, Load) pipeline in Python to automate daily data retrieval from financial APIs, ensuring 100% data continuity and accuracy for daily market analysis.
- Managed full-cycle database maintenance and version control using CVS, operating within a Linux (Ubuntu) environment via VirtualBox to ensure a stable and isolated development workflow.
- Collaborated directly with the CEO via Slack to gather requirements, provide progress updates, and refine data outputs.

Software Engineer Intern @ Publicis Sapient | June 2023 – September 2023

- Developed a Proof-of-Concept (PoC) AI-driven interface using Python and Flask, integrating the OpenAI API to translate CEO-level business requirements into dynamic ERP dashboard configurations.
- Engineered backend logic to manage conversational state, utilizing custom prompting and API handling to ensure the chatbot accurately mapped user responses to specific data visualization widgets.

- Collaborated within an 8-person cross-functional squad, participating in full Agile/Scrum ceremonies including daily stand-ups, sprint planning, and ticket management via Jira.
- Built responsive frontend components using JavaScript and React, designing modular dashboard widgets that interfaced seamlessly with the Python backend to visualize enterprise data.
- Managed code integrity and version control using GitHub, following a professional branching and pull-request strategy to ensure stable feature integration.
- Delivered a high-level technical presentation to an audience of peers and senior stakeholders, effectively communicating project architecture, challenges, and business value.

Personal Projects

Job Application Tracker | May 2025 – Present

- Built a full-stack web app that helps users track and manage job applications in one place.
- Integrated Gmail API to automatically read and categorize application-related emails.
- Implemented secure user authentication and database management using Supabase.
- Developed a FastAPI (Python) backend for data processing and AI-powered features via OpenAI API and Ollama.
- Designed a clean, responsive interface using JavaScript with React and TailwindCSS for an intuitive user experience.

Technical and Soft Skills Summary

- Python (FastAPI, Flask), RESTful API Design, SQL (SQLite, Supabase/PostgreSQL), AWS, Cloud Computing, React, JavaScript, TypeScript, CSS, TailwindCSS, AI/LLM Integration (OpenAI, Ollama), TensorFlow, ETL Pipelines, Git/GitHub, Linux (Ubuntu), Jira, and Agile/Scrum Methodologies.
- Stakeholder Requirement Gathering, Cross-functional Teamwork, Technical Public Speaking, Problem Solving, Rapid Prototyping, and Communication.

Education and Certifications

AWS Certified Cloud Practitioner | August 2026

Validation Number: [9e4764cb03cd4546b400c6b35557e61b](#)

Computer Science BSc (Hons) 2:1 @ University of Bath | October 2021 – June 2024

- **Achieved 85% in Data Structures and Algorithms**
- **Achieved 79% in Principles of Programming**
- **Hackathon Winner (£200 Prize):** Co-designed a gamified hiring solution that replaces static CVs with cognitive-testing mini-games to identify high-potential candidates through behavioral data.

Whitgift School | September 2014 - June 2021

- Achieved **A*A*A** in Computer Science, Maths and Physics A-Levels respectively
- Achieved 10 **A*- B** equivalent grades in GCSEs.