

TOM WALLIS

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PROFILE

Python backend engineer with six years building business-critical systems in regulated environments. Owns products end to end — requirements, architecture, build, and production support — and has led the adoption of engineering standards across the team.

WORK EXPERIENCE

Software Developer | Exemplar Health Care (Remote) Aug 2023 – Present

Healthcare provider operating 60+ nursing homes with 4,000+ staff. Own multiple products end to end within a small team, working with product owners from requirements through to production support.

- **Absence Management** — company-wide system for recording and managing staff absence, used by 4,000+ employees. Multi-stage escalation workflows, role-based access control, and Azure SSO, with REST API integrations for automated shift cancellation and return-to-work detection. Django, SQL Server.
- **Compliance Platform** — internal CQC auditing system. The audit team mirrors the CQC framework and records evidence per site; the platform scores it using an algorithm built to match their calculation. Replaced spreadsheet tracking across 60+ sites, cutting audit preparation from days to minutes. Django REST Framework, Angular.
- **Asset Manager** — tracks 15,000+ devices across the business and flags equipment with out-of-date PAT testing. Django REST Framework, Angular.
- **Azure** — manage resources across the estate including function apps; refactored infrastructure onto private networking using virtual network integration and private endpoints.
- Led the migration of codebases from individual ownership into a structured source-control organisation, and introduced a kanban workflow, linting, and documentation standards.

Software Developer | Smarter Data Management (Remote) Jul 2020 – Aug 2023

- Joined in technical support and moved into the development team after independently building Python automation that removed recurring manual reporting work.
- Developed features across a heating control platform (Python, NestJS, Angular) for remote monitoring and control of panel heaters in commercial properties, driven by temperature sensor readings.
- Maintained an estate of Raspberry Pi controllers running Python for sensor data collection and automated heating control.

Communications & Information Specialist | Royal Navy, Portsmouth Jul 2016 – Jul 2020

- Operated and maintained secure communications and information systems to strict security and data-handling standards in high-pressure operational environments.

PROJECTS

Anlaby Park Community Library — github.com/wallistom/anlaby-park-community-library

Community library website with a public events calendar and an admin system for managing events, opening hours, and access. Built on AWS Lambda, API Gateway, and DynamoDB, with infrastructure in Terraform and CI/CD through GitHub Actions.

TECHNICAL SKILLS

Backend: Python, Django, Django REST Framework, REST API design

Cloud & Infrastructure: AWS (Lambda, API Gateway, DynamoDB, S3, IAM), Azure (Entra ID, virtual machines, Data Factory, function apps), Terraform, Docker, GitHub Actions, CI/CD

Databases: PostgreSQL, SQL Server, DynamoDB

Frontend: Angular, TypeScript, TailwindCSS

Practice: Automated testing (pytest), AI-assisted development (Claude Code, Codex)

CERTIFICATIONS

AWS Certified Solutions Architect – Associate (SAA-C03)