

Henri Woodcock

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SWE with 5+ years experience building full-stack cloud-native SaaS products in AWS. Proven ability leading engineers, delivering large-scale migrations (1,000+ users), and designing and building secure, scalable systems.

Skills

Languages: Python, Javascript/Typescript, Terraform, SQL

Frameworks: Flask, FastAPI, React, NextJS, Postgres

Additional: AWS, REST APIs, async processing, OAuth2, CI/CD

Experience

Lead Software Engineer, BMLL – London, UK Feb 2025 – Present

Senior Software Engineer, BMLL – London, UK Feb 2023 – Feb 2025

Python Developer, BMLL – London, UK Aug 2021 – Feb 2023

- Designed and implemented an event-driven data replication system (SNS, SQS, Lambda) with retry and idempotency, enabling reliable synchronisation of customer data across multiple product databases and rapid onboarding of new services.
- Contributed to the design and led implementation of a high-value white-label deployment for an enterprise customer within a fixed 3-month deadline, coordinating contractors and running in-person technical workshops to support delivery.
- Collaborated on the design and led implementation of migration from a monolithic architecture to a microservices model with database-per-service ownership, improving system isolation, scalability, and independent deployments.
- Own technical design and delivery of authentication, infrastructure, and monitoring systems.
- Mentor engineers and act as escalation point for production incidents and customer issues.
- Led migration from legacy authentication to AWS Cognito, migrating 1,000+ users and enabling unified OAuth2 login across products.
- Built a new file storage platform using FSx for Lustre with async AWS provisioning and automated teardown, creating a paid product add-on.
- Implemented cross-account logging and usage analytics pipelines across 100+ AWS accounts, powering real-time alerts and reporting APIs.

Graduate AI Technical Evangelist, Arm – Cambridge, UK Dec 2020 – Jul 2021

- Delivered workshops to 60+ engineers on deploying ML models to edge devices.
- Contributed to open-source software (TensorFlow, PyTorch, Arm, Nvidia) to improve Arm's ecosystem.
- Co-developed a TinyML marketing strategy and technical guides on training-to-deployment workflows, recognised by TensorFlow and published on their blog. [Notebook Link 1](#). [Notebook Link 2](#).

Graduate Strategic Consultant, Jacobs – London, UK Aug 2019 – Sept 2020

- Developed a Python CLI tool to replace licensed PRAM software, cutting costs and improving performance.
- Created and validated a neural network for mooring line fatigue prediction, significantly reducing computation time.

Personal Projects

Trckrspace - Product, web analytics and dashboarding tool. trckrspace.com

25Tax - Income & VAT MTD compliance Software. 25tax.co.uk

London Segment League - Competitive Strava based running league. londonsegmentleague.com

Medium Blog - Software & AI topics. henriwoodcock.medium.com

Education

University of Leeds – BSc Mathematics with Finance (1st Class) 2016-2019