

Henri Woodcock

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Skills

Languages: Python, Javascript/Typescript, Terraform, SQL

Frameworks: Flask, FastAPI, React, NextJS, Postgres

Additional: AWS, Leadership, Communication

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

- Proposed, designed, and implemented migration of the Data Lab product to AWS Cognito—replacing a legacy authentication system. Delivered in 8 months with seamless migration of 1,000+ users, and built an extendable OAuth2 system for unified login across BMLL products, while leading 2 developers and managing the project.
- Identified the requirement for a dev environment for BMLL customers. Designed the mechanism for users to securely switch between their dev and production account. This positively impacted Sales as customers had multiple accounts.
- Designed and implemented a file storage feature replacing S3 with FSx for Lustre. Built async tasks for on-demand AWS infrastructure provisioning and teardown, engineered file migration/replication for resilience, enabled cross-account logging and automated S3 failover (error scenarios) —improving UX and Sales through this paid add-on.
- Developed customer monitoring and reporting software by building DAGs that collected daily usage data from 100+ AWS accounts using CloudTrail and Athena. This enabled real-time monitoring, alerting, and a reports API, supporting sales and customer success teams by providing customer insights.
- Day-to-day tasks include: customer support, debugging live issues, supporting customers with their use-cases and on-call for resolving major production incidents. Additionally, running a daily stand up and supporting the team with their tasks.

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

- Led a hands-on workshop for 60+ engineers, equipping them with practical skills in deploying Object Detection models to microcontrollers and single board computers with real-world applications through interactive training.
- Contributed to open-source software (TensorFlow, PyTorch, Arm, Nvidia) to improve Arm's ecosystem.
- Co-developed a marketing strategy to help data scientists transition to TinyML, creating detailed guides on training-to-deployment workflows. Work was recognised by TensorFlow and published on their blog. Presented strategies to senior stakeholders. [Notebook Link 1](#). [Notebook Link 2](#).

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

- Developed a custom PRAM CLI tool in Python, replacing licensed software to cut costs while ensuring fast, accurate, and maintainable performance.
- Created and validated a neural network for mooring line fatigue prediction, significantly reducing computation time.

Personal Projects

Trckrspace - Versatile product and web analytics tool. trckrspace.com

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

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

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

Education

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