

Dylan Ritchings

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Experience

Software Developer

03/2022 – current

Met Office (QA Ltd Consultant 03/2022-03/2025)

In my current role, I am actively involved in the development and maintenance of aviation APIs. My responsibilities include:

- Constructing serverless infrastructure utilizing Python AWS CDK and Terraform.
- Crafting Python AWS Lambdas integrated with scientific libraries to manage weather data.
- Creating tooling solutions aimed at facilitating the creation and ongoing maintenance of APIs.

Notable contributions:

- Improved workflows with custom tooling, one example was a Bash script using GitHub CLI to trigger GitHub Actions that built Lambda packages. As our restricted laptops couldn't build these locally, this enabled developers to update infrastructure seamlessly, replacing the manual GitHub web interface approach.
- Contributed to designing and implementing a serverless solution that integrates data from the US National Oceanic and Atmospheric Administration into our system, allowing users to seamlessly access both datasets. This improved system reliability by providing fallback data if our datasets failed to generate.
- Helped scientists productionise their code by writing tests and integrating scientific logic into maintainable systems.

Infrastructure Developer

10/2021 – 11/2022

IBM (QA Ltd Consultant)

I was involved in migrating legacy DEFRA applications to AWS, primarily focusing on:

- Creating Terraform scripts for deploying AWS infrastructure
- Developing Ansible and Packer scripts for generating AMIs for EC2 instances
- Creating automation scripts using Bash, Python, and PowerShell for tasks in AWS and server environments.

Notable contributions:

- Led the first live migration of a legacy service to AWS and authored instructions to support future efforts.
- Improved infrastructure reliability by creating scripts to automate server setup using AMIs, replacing the previous manual configuration process.

Technical skills

Programming languages	Proficient in Python, Bash, Terraform & Ansible; acquainted with Go, Nix, HTML, CSS, Powershell & LaTeX
Testing	Python UnitTest, Moto, MagickMock, Cucumber & Gherkin
Operating Systems	Linux, MacOS, Windows & Proxmox
Cloud platforms	AWS (Python CDK, Boto3, CloudFormation, CLI) & WSO2 API Manager
Database technologies	RDS, PostgreSQL & MySQL
IDEs	Vim & Emacs

Education & Certification

AWS Certified Cloud Practitioner	06/2022 – 06/2025
University of Portsmouth <i>BSc Software Engineering (2:1, 3.45 GPA)</i>	09/2017 – 06/2020
Collyer's VI Form College, Horsham <i>A level: Physics (B), Computer Science (C), Environmental Studies (D)</i>	09/2015 – 06/2017
Warden Park School, Haywards Heath <i>9 GCSEs: Maths (A), Science (A), Additional Science (B), Computer Science (B), English Literature, English Language, Philosophy and Ethics, Product Design</i>	09/2010 – 07/2015