DOLAPO AJAYI

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My Website
My Code Repository

Profile

I am a bioinformatician making a transition into cloud engineering with aspirations on becoming a cloud architect. I have acquired and developed strong computing and communication skills as a bioinformatician and a trainee clinical scientist. I have extensive experience of working on various Linux OS distributions, scripting in Bash, and programming in Python and R, job scheduling using HPCs, navigating virtual machines, containerising tools with Docker and Singularity, using Git version control and code reviewing for collaborative development.

I have a good foundation in cloud computing having completed AWS education courses and worked on hands-on projects using Infrastructure as Code language. I am looking for roles in cloud engineering.

Education

MSc Clinical Science - Genomic Sciences (Clinical Bioinformatics Genomics)   **University of Manchester, Expected completion in September 2025**

MSc Bioinformatics with Systems Biology (Merit)   **Birkbeck College, 2017**

Cloud Projects

Project 1 – Infrastructure for a Highly Available Web Application (finished)
- Components and AWS services used: VPC, Public. & Private subnets, EC2, ELB, MySQL database, NAT Gateway, Security groups
- This exercise enabled me to learn about each of these resources, how to connect them to each other in a network, how to secure them and how to provision them using Terraform code.

Project 2 – Infrastructure for a Highly Available Web Application which shuts down and boots up at specified times of the day (actively building)
- Components and AWS services used: VPC, Public & Private subnets, EC2 ALB, MySQL database, NAT Gateway, Security groups, Auto Scaling Group, CloudWatch, IAM, Lambda and S3.
- Taking my time working through this project reinforced the fundamentals of networking and securing cloud infrastructure whilst also familiarising myself various resources.

Courses & Certifications

AWS Educate Introduction to Cloud 101 Badge   **AWS Educate, March 2025**

AWS Educate Introduction to Generative AI Badge   **AWS Educate, March 2025**

AWS Educate Getting Started with Networking Badge   **AWS Educate, March 2025**

AWS Educate Getting Started with Storage Badge   **AWS Educate, March 2025**

AWS Solutions Architect Associate Certification (preparing)   **AWS, 2025**

Essentials of Digital Clinical Safety (DCS) Credential on LinkedIn   **NHS Digital, 2024**

Career Experience

The Royal Marsden Hospital, London   **Sept 2022 – Present as Trainee Clinical Bioinformatics Scientist**

- I am leading the development of a Clinical Homologous Recombination Deficiency (HRD) test for patients with High Grade Ovarian Cancer. This project involves a literature review, designing and developing a bioinformatics pipeline, assessment of performance metrics and exploratory analysis of results. I work with stakeholders to ensure that the project is meeting expectations and is on schedule.
- I develop CLI tools and scripts using Bash and Python to conduct pull information from files, copy, move, manage and transform data.
- I am responsible for delivering training in the use of Git and GitHub for version control for all script and software development in the bioinformatics team. I was also responsible for the change in policy to this new way of working.

The Royal Marsden Hospital, London   **Jan 2022 – August 2022 as Bioinformatician**

- Working with Rocky Linux and Mac OS, I managed and ran the clinical bioinformatics pipeline on the High-Performance Computing (HPC) Cluster for the analysis of various NGS data.
- I managed and curated data stored within the SQL database, pulling, adding and modifying data stored.

UCL Cancer Institute, London   **March 2019 –December 2021 as Bioinformatician**

- Working with Linux Centos 7, my main project here was to investigate the methylome landscape of Undifferentiated Sarcoma using various statistical and data science methods. My work for this project is published in Nature.

Animal and Plant Health Agency, Addlestone   **February 2018 – March 2019 as Bioinformatician**

- At the APHA I successfully developed and maintained an NGS pipeline for salmonella serovar identification and surveillance in the UK.
- It was at the APHA that, I mainly worked with Virtual Machines, using Linux Ubuntu and I translated a software written in Bash into Python and in doing so I learnt to code using Python.
- I carried out phylogenetic analysis of bacteria samples, including for publication.

Hobbies & Interests

I'm an avid reader of history, philosophy, science, theology and more. I enjoy doing calisthenics, cycling, football, tennis and weightlifting.