

# Zubayda Hagi

 zhagi    zubaydahagi@gmail.com    Zubayda Hagi    London

## PROFILE

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A former Chemistry teacher turned programmer after graduating from Makers Academy. Eager to blend technical skills with strong interpersonal abilities in a dynamic role.

## PROJECTS

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### Ansible Project

*Technologies: Ansible, AWS (EC2), Ubuntu, Apache2, Python, Yaml*

Leveraged Ansible server setup to automate the configuration of a web server on a remote Ubuntu machine.

### Metapod Project

*Technologies: Terraform, Github Actions, S3, EKS, AWS CLI, kubectl*

Designed and deployed an Amazon EKS cluster with Terraform and automated CI/CD via GitHub Actions.

### Security Vulnerabilities Project

*Technologies: Bandit (SAST), OWASP ZAP (DAST), Python (Flask), HTML, SQL (PostgreSQL)*

Executed a security overhaul project employing SAST and DAST tools to identify and rectify vulnerabilities in existing software.

### Reliability Project

*Technologies: AWS (EC2, VPC, CloudWatch, Athena, API Gateway, CloudFront, Lambda, Loadbalancer, DynamoDB, S3), NGINX*

Enhancements to a veterinary hospital's HOSP system, focusing on operational integrity, enhanced reliability, and security against breaches.

### MakerBnB

*Technologies: Python (Flask), HTML, CSS, SQL (PostgreSQL)*

An AirBnB clone project, utilising agile work practices and integrating a SQL database with Python.

## PROFESSIONAL EXPERIENCE

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### Software and Cloud Engineering Bootcamp

Jul 2023 – Oct 2023 | London, UK

*Makers Academy*

- > Containerised and deployed applications utilising Kubernetes, Docker, Amazon EKS and NGINX for load balancing.
- > Implemented Serverless architectures in the cloud with AWS Lambda and API Gateway.
- > Leveraged Infrastructure as Code (IaC) using Terraform for cloud configurations, integrating GitHub workflows, Jenkins CI/CD, code reviews and automated testing.
- > Managed deployments through container orchestration.
- > Addressed and rectified security vulnerabilities in cloud deployments using DAST & SAST tools.
- > Proactively tackled and mitigated site reliability issues in live applications with AWS CloudWatch & ELB.
- > Developed web applications following test-driven development principles, utilising HTTP & REST APIs and facilitating remote data interactions with SQL & PostgreSQL, with NGINX serving as the web server.

### Teacher of Chemistry

Jan 2021 – Jul 2023 | London, UK

*Woodhouse College*

- > Prepared A level Chemistry students for exams, resulting in a 30% increase in A/A\* grades and led colleagues in understanding marking criteria as an AQA examiner.
- > Provided mentoring, UCAS references, and support for tutees and Medicine Academy applicants, including conducting mock interviews and organising workshops and trips for medicine-related courses.

## SKILLS

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**Languages** (Python, SQL, YAML)

**Technologies & Techniques** (AWS, Kubernetes, Terraform, Jenkins, Github Actions, Docker, Postman, TablePlus, MongoDB, Git, PostgreSQL, Agile, Scrum, OOP, TDD, CI/CD, Debugging)

## EDUCATION

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### BSc Biochemistry and Genetics

2014 – 2017 | Nottingham, UK

*University of Nottingham*