

# Hugh Wells

AWS Certified Site Reliability Engineer and Security Specialist

## *WORTH Internet Systems*

- **Site Reliability Engineer: March 2021 -**
  - Maintaining and developing Terraform & Terragrunt code for multiple clients
  - Building infrastructure supporting production applications across AWS, GCP & Azure
    - Container based: EKS & ECS, GAE & GKE
    - Serverless: Lambda, Azure Functions & IoT Hub
    - DynamoDB, RDS (Postgres), Firestore
  - Building and supporting observability in Grafana & CloudWatch
    - Prometheus, InfluxDB and custom event driven data analysis pipelines
  - Maintaining pipeline and build infrastructure in GitHub Actions, Bitbucket Pipelines, CodePipeline, Bamboo & ADO
  - General Linux administration with Ansible, Bash scripting and Python internal tooling
  - Working in an agile and highly collaborative way, using mobbing as a key tool to increase pace, quality and knowledge sharing
  - Creating operational readiness & incident management processes
- **Security Engineer: November 2021 -**
  - Owning ISO/IEC 27001:2013 ISMS and associated recertification activities
    - Complete ISMS rewrite and new certification to support business reorganisation
    - Scoping changes and planning activities for compliance with ISO/IEC 27001:2022
    - Ongoing internal support to improve risk management and security posture
  - Achieved Cyber Essentials certification, required for Government bids
  - Monitoring and managing device estate via scripts linked to MDM tooling
  - Ensuring compliance with company policy and client requirements across devices
  - Developing & leading threat modelling sessions for clients, and internal projects

## *London Borough of Hackney*

- **Senior Developer: September 2020 - March 2021**
  - Working on API platform to deliver standardised endpoints integrating with a number of legacy backing services
  - Migrating legacy databases to Postgres on RDS
  - Managing AWS SSO & Control Tower, with identity federation across applications
  - Restructuring infrastructure in AWS and providing new CI/CD & Terraform pipelines with improved monitoring and alerting

## *Ministry of Justice - Judicial Appointments Commission*

- **Junior Developer: June 2020 - August 2020**
  - Working on improving DevOps
    - Planning CI/CD pipeline replacement
    - Exploring options for a Firebase migration
  - Delivering code to support business use of the application
  - Led requirements analysis, design and implementation of Qualifying Tests project
  - Carried out operational security review and worked to plan and implement required changes as part of ongoing penetration testing and Internal Audit reporting

## *Underland*

- **Software Engineering Intern: Summer 2019**
  - Python Serverless integrating with RDS, S3, Cognito and externally with Adyen & Twilio
  - Carried out user research, designed and architected solutions and worked on a number of backend components such as payments, SMS and core systems

## Monzo

- **Customer Operations: November 2017 - May 2018**
- **Second Line technical & payments, May 2018 - September 2018**
  - Internal tooling in React & backend with Go
  - Traced bugs, patched code and added new features to our codebase
- **Mastercard Fraud & Dispute Specialist, September 2018 - May 2020**
  - Weekend disputes Expert
  - Mastercard Arbitration, Compliance and technical Case Filings

## Education:

iGCSEs/GCSEs: Maths, Physics, Chemistry, Biology, Geography, History, Computer Science English, French, Religious Studies

A Levels: Computer Science, Electronics AS Levels: Maths Pre-U: Physics

Degree: Computer Science BSc Hons. First Class - Royal Holloway, University of London

## Professional Qualifications:

AWS Certified Cloud Practitioner (August 2024)

AWS Certified Security - Specialty (October 2024)

HashiCorp Certified: Terraform Associate (July 2024)

Certificate in Retail Banking: Conduct of Business (CertRBCB, LIBF)

Mastercard Academy: Chargeback and Dispute Resolution workshop

EASA Private Pilots Licence with Restricted Instrument Rating, Night Rating and Class 2 Medical.

## Side Projects:

### **SwagShipHack.dev / Peregrine Coast Press**

Swag shipping for hackathons and events during the Covid-19 pandemic. Now an indie publishing house working with multiple clients (DnD, other RPG, gaming journals & more) with invoicing, contracts and supplier management. Custom quoting and order management pipeline including handling IOSS and DDP.

## Hackathons & Volunteering:

**Volunteer Organiser:** [MCH2022](#) on Team:Content & Team:SpeakerDesk, [EMF Camp](#) Greenroom

**Hackathon Organiser:** [RoyalHackaway](#), [UKGovcamp](#), [HackTheMidlands](#), [RebelMakersCamp 2016](#)

**GitHub Campus Expert:** [githubcampus.expert/crablab](#)

*Cisco University Challenge 2017* ([1st place](#))

*Hack The Midlands 2.0* ([Nexmo Sponsor Challenge](#), [Majestic Sponsor Challenge](#), Hacker Spirit Award)

*Hack The Holidays 1.0* (Hacker Spirit Award), *Hack The Holidays 2.0* ([GitHub Sponsor Challenge](#))

*BrumHack 5.0* - ([CapitalOne Sponsor Challenge](#))

*UKGovHack*

*Accountability Hack* ([Winner](#))

*RLSB Hack* ([1st place](#))

*YRS 2015, YRS2014, RS2013* (Semi-Finalist)

## Freelance Clients:

### **CodeGroovers**

RHUL CompSci Student Developers - contractor

### **Madcast Media Network ([madcastmedia.com/account](https://madcastmedia.com/account))**

#### **JOQ/Social Billboard**

Lead Backend Developer: full CMS, ordering system, payment integration (Braintree) and API

### **JOQ/Channel 5 The Gadget Show & Fifth Gear ([fifthgear.tv](https://fifthgear.tv))**

Contractor for API endpoints and CMS integration

### **Goodyear ([goodyear.com](https://goodyear.com))**

Research and Development

### **Rebel Uncut ([rebeluncut.co.uk](https://rebeluncut.co.uk))**

Developer working on multiple projects, both in house and for corporate clients

### **Rewired State ([rewiredstate.org](https://rewiredstate.org))**

In house developer