

# Hugh Grigg

Contract Software Engineer | London | UK Citizen

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## Summary

Experienced, highly capable principal software engineer seeking a contract role to build on an extensive track record of application development, platform engineering and systems design.

## Professional Certifications

### **AWS Certified Solutions Architect Professional (SAP-C02), 2023**

Lambda, EC2, EKS, Aurora, RDS, S3, VPC, ECS, CloudFront, IAM

### **AWS Certified Developer Associate (DVA-C02), 2023**

DynamoDB, Aurora, RDS, SQS, CloudFormation, Lambda, EC2

## Professional Experience

### Kensio Software, Contract Software Engineer, Jan 2021 to Present

Contract and freelance software engineering projects, for end clients including X2X Media, Bulb Energy, Doozy.Live, HyperObjekt, Mutual Credit Services. Wide variety of application architecture and implementation, including national energy market system integrations, messaging applications and large scale cloud infrastructure. *Technologies: AWS, CloudFormation, Terraform, Kubernetes, EKS, CI/CD, Lambda, Serverless, Microservices, GCP, Cloud Functions, Python, Testing, TDD, Django, TypeScript, JavaScript, Node.js, MySQL, PostgreSQL, Elasticsearch, MongoDB, React, CSS, SCSS, GraphQL, Git, GitHub Actions, Gitlab CI*

### Freetrade [Fintech], Principal Software Engineer, Oct 2018 - Dec 2020

Among the first five engineers at Freetrade, taking a central role in platform architecture, applying design patterns and software engineering best practice. Promoted to Principal Software Engineer in recognition of technical leadership, high-level technological decision-making and architectural system design. Built Freetrade's subscription payment system. Built Freetrade's stock market FIX trading integration. Built a customised testing framework to emulate key GCP functionality for high-speed effective testing to run CI/CD flows more quickly and accurately (see OSS section below). *Technologies: TypeScript, NodeJS, JavaScript, Python, Testing, TDD, Django, Google Cloud Platform, Kubernetes, EKS, Microservices, Serverless, CQRS, Event Sourcing, Google Cloud Functions, Firebase, PostgreSQL, Terraform, Docker, React, CSS, SCSS, FIX*

### uMed [Medtech], Senior Software Engineer, Apr 2018 - Oct 2018

Designed, built and tested platform systems using Python, Django, AWS and PostgreSQL among other technologies. Careful technology selection, system design, testing methodology including TDD, as well as software architectural leadership. *Technologies:*

*Python, Django, AWS Lambda, Serverless, PostgreSQL, Redis, JavaScript, React, CSS, SCSS, Testing*

## LoveCrafts [E-commerce], Software Developer, Sep 2014 - Apr 2018

Delivered critical integrations with applications in the company's multi-service architecture and with third-party system integrations. Built the backend platform for LoveCrafts' social network. *Technologies: AWS, Python, Django, Microservices, Laravel, Symfony, MySQL, Redis, Elasticsearch, Linux, JavaScript, CSS, SCSS, Testing, TDD*

## Senlinx [Business Intelligence], Software Developer, 2013 - 2014

*Technologies: Python, Django, Laravel, MySQL, Redis, Linux, JavaScript, CSS, SCSS, Digital Ocean*

## Education

### MA, University of Cambridge

MA East Asian Studies from the University of Cambridge.

### BA, University of Cambridge

Double First Class Honours BA in East Asian Studies from the University of Cambridge.

### Thirsk School and Sixth Form College

GCEs (A-level): 4 at A, including Maths. GCEs (AS-level): 7 at A, including Further Maths

## Ask me about my professional experience with:

System Design, Software Architecture, Distributed Systems, Cloud, Microservices, Serverless, CQRS, Event Sourcing, E-commerce, AWS, GCP, CI/CD, IaC, Terraform, Kubernetes, EKS, Lambda, Aurora, RDS, S3, EC2, VPC, ECS, CloudFront, Cloud Functions, Design Patterns, TypeScript, NodeJS, JavaScript, React, Linux, Docker, Python, Testing, TDD, Django, Hugo, Git, GitHub Actions, Gitlab CI, SQL, Cloud Functions, Redis, PostgreSQL, Elasticsearch, Firebase, NoSQL, MongoDB

## Open Source Software

<https://github.com/freetrade-io/ts-firebase-driver-testing/>

<https://github.com/freetrade-io/ts-business-time>

## Writing

<https://notestoself.dev/posts/cross-post-e2e-serverless-testing-driver-pattern/>

<https://notestoself.dev/posts/serverless-integration-testing-freetrade/>

<https://notestoself.dev/posts/write-code-that-is-easy-to-delete/>