


# Adam Kent

Software Developer and Consultant

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## EXPERIENCE

### ZIFO; EDF ENERGY; BRITISH GAS | CONSULTING AS PYTHON DEVELOPER

Jul 2022 - Present | Remote, United Kingdom

- Working in Python-heavy stacks, using web libraries (Django, Flask, FastAPI etc.) to build web-app solutions for clients.
- Deploying containerised micro-services, utilising IaC to produce scalable systems.
- Improving release efficiency through CI/CD and workflow simplification (Code Pipeline), and adhering to Test-Driven Development practices.
- Building data pipelines and web APIs, leveraging SQL databases.
- Developing Lambda-based AI chatbots, with latest frontend tech (Next.JS, React).

### BANK OF AMERICA | SOFTWARE ENGINEER III (AVP) - COMMODITIES

May 2022 - Jul 2022 | City of London, United Kingdom

- Developing and modernising components of in-house python stack (Quartz), working specifically on their risk platform.
- Implementing calculators into PnL Explain reports for the commodities team, leveraging Sandra, an object store implemented in C++.
- Aiding the commodities trading desk by tailoring Risk/PnL reporting dashboards for exotic securities.

### DEPARTMENT OF HEALTH AND SC (UK GOV) | PYTHON DEVELOPER

Aug 2021 - March 2022 | Royal Leamington Spa, United Kingdom

- Developed Python-based, bespoke LIMS system for public health data, using SQL/Oracle DB for data and Azure for user authentication.
- Produced Flask-based BI and MI reporting dashboards in Data Science team.

Self-releasing Developer | 2009 - Present

- From age 10, developed and released software through web forums.
- Produced file-encryption software to challenge security programs successfully, receiving thousands of downloads and reaching 6-figure views in 2010.

## PROJECTS

### REFLX LIMS INFORMATICS SYSTEM | PYTHON

Department of Health and SC - 2021

- Developing the first ever LIMS for the ground-breaking ReflX assay, a specific PCR test using a light cycler.
- Utilised Azure storage blobs in Python for storage of sensitive large data sets.

### AI CLASSIFICATION OF MUSIC BY GENRE (MASTER'S PROJECT) | PYTHON

University of Liverpool - 2021

- Neural network utilising Mel-Cepstral Coefficient data from samples of recorded music to group them by their respective genre.
- Utilises L2 regularisation and dropout to mitigate overfitting.

## SKILLS

### PROGRAMMING

Proficient:

- Python • JavaScript • React
- Next.js • SQL • HTML • CSS

Familiar:

- C++ • Java • C# • PHP

### PYTHON LIBRARIES

- Pandas • Django • Scikit-learn
- PyTorch • Flask • PyTest

### PLATFORMS

- AWS • Linux • .NET • Azure
- SQL • OpenAI • Docker
- Terraform • AWS Lambda
- API Gateway • Serverless

## EDUCATION

### UNIVERSITY OF LIVERPOOL

MSC COMPUTER SCIENCE (DIST.)

Merseyside, United Kingdom

Master's w/ First Class Honours

### UNIVERSITY OF LEEDS

BSC BACHELOR OF SCIENCE

West Yorkshire, United Kingdom

Bachelor's with Honours (2:1)

## INTERESTS

- Artificial Intelligence • NLP
- Blockchain • Cyber Security
- Ethical Hacking • Finance
- Cross-platform development

## HOBBIES

- Playing Piano and Guitar
- Bird-watching
- Cycling and Fitness
- Teaching Programming