

# Jon Flynn

London, UK

0737 604 7289 | jon.flynn2@gmail.com | [github](#) | [linkedin](#)

## Senior Full-stack Developer, The Guardian | September 2021 - Present

*(Promoted to Senior in March 2025)*

*Technologies: Scala, ZIO, AWS, Kinesis, Typescript*

- Develop and maintain [Ophan](#), our in-house analytics platform, processing 1B+ weekly events with 1-second tracking to ingestion time using Scala, Kinesis and ElasticSearch.
- Enhanced developer experience by modernising and implementing TypeScript support in Ophan's client-side tracking library
- Led backend development of subscription switching feature
- Introduced targeted newsletters and marketing campaigns using AWS EventBridge, SQS, Lambda and Airflow with DBT
- Developed ETL pipelines using Scala, ZIO, and AWS Step Functions to execute price adjustments and Zuora rate plan migrations
- Served as backend technical lead for Retention team's security and operational initiatives

## Research & Open Source Contributions

*Technologies: Python, transformers (huggingface), PyTorch*

- I'm a writer for [Towards Data Science](#), the most popular publication on Medium, focusing on deep learning research and implementation
- Implemented [training support for Meta's EnCodec](#) in HuggingFace's transformers library, including loss computations
- [Conducted research](#) on multi-modal audio models and music transcription using Qwen2-Audio
- [Fine-tuned Mistral 7B Instruct](#) for code understanding using Guardian's codebase
- [Proposal](#) for data collection and LLM fine-tuning product

## MRes Bioengineering (Part-time), University College London (UCL) | 2025 - 2027

- I will be researching sampling blood via microneedling and miniaturised blood testing

## Software Developer, H2O Creative Communications Ltd. | July 2019 - September 2021

*Technologies: React.js, .NET Core, PostgreSQL*

- Primary client was Harley Davidson. Owned and extended [harley-davidson.com](#) and Harley's [dealer selection system](#).
- Implemented custom search engine for Unipart's intranet, leveraging TF-IDF and a graph DB for synonym maps and a custom lexical database.

## BSc (Hons) Computer Science, Newcastle University | 2016 – 2019

- Second Class, Upper Division (2:1)