

# Conor Turner

Senior Software Engineer

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4-week notice period

Right to work: British Citizen

## PROFESSIONAL SUMMARY

Senior Software Engineer with 12+ years of professional experience, specialising in Python back-end systems, high-throughput APIs, and distributed applications. Proven track record of delivering software in highly regulated industries (aerospace / fintech / compliance). Brings full-stack breadth - from database design through to React front-ends - with a pragmatic, quality-first engineering mindset.

Seeking a senior IC or tech-lead role at a London FinTech valuing engineering excellence and commercial impact.

## TECHNICAL SKILLS

### Core Languages

Python - SQL - JavaScript - Bash

### Frameworks & Libraries

Django - DRF - Graphene / Strawberry - Celery - Pandas - NumPy - Scikit-learn - Keras

### Infrastructure & Cloud

AWS - Docker - Kubernetes - CI/CD - GitHub / GitLab

### Messaging & Data

Kafka - Protobuf - RabbitMQ - Postgres - SQL Server

### Frontend

React - Vanilla HTML / CSS / JS - d3.js

## EXPERIENCE

### Senior Software Engineer

Jul 2024 - Present

#### Hisky (Satellite Network Management)

London, UK (Remote)

Stack: Python, Django, GraphQL (Graphene & Strawberry), Postgres, Celery, Kubernetes, AWS

- Designed and built GraphQL API endpoints for a high-throughput, low-latency Network Management System (NMS), championing consistency standards that significantly improved developer velocity.
- Delivered a greenfield NMS rewrite as lead developer, achieving 90% feature parity with the legacy system using only ~25% of the original LoC, dramatically reducing maintenance overhead (56k v 255k LoC)
- Developed a novel JSON validation framework that proved so robust it now auto-generates the team's API documentation - eliminating a manual documentation burden.
- Built a proof-of-concept TCP/UDP monitoring server from scratch in Python, demonstrating 10 MB/s throughput at sub-10 ms latency before the project was paused.

### Senior Software Engineer

Oct 2023 - Jul 2024

#### CerberusTech (Media-over-IP SaaS)

Southampton, UK (Remote)

Stack: Python, Flask, Swagger, AWS, AWS CLI

- Lead developer on the 'NEA Live' service — a SaaS platform enabling on-demand cloud resource provisioning for live sports broadcast over IP.
- Managed direct stakeholder relationships with a partner company licensing the product, owning the API contract and delivery timeline end-to-end.

### Software Engineer

Jul 2021 - Sep 2023

#### ComplyAdvantage (FinTech - Financial Crime Compliance)

London, UK (Remote)

Stack: Python, Django, DRF, Postgres, Kubernetes, Kafka, Protobuf

- Core member of the ingestion & enrichment team for a Transaction Monitoring (TM) product serving 200+ clients - responsible for input validation, data enrichment, and storage design.
- Co-designed a Kafka-based time-series aggregation microservice that scaled throughput from 5 tps to 500 tps (100x improvement) by replacing monolithic Postgres processing with a distributed, event-driven architecture.
- Provided out-of-hours on-call support, making independent prioritisation decisions to restore service rapidly while deferring non-critical clean-up - maintaining SLA commitments for all clients.

## Software Developer

### Rolls-Royce (Aerospace)

Stack: SQL Server, MATLAB, Excel, VBA

Jun 2018 - Jun 2021  
Derby, UK (On-site)

- Developed analysis automation tools that cut common engineering workflows from 1-2 weeks to under a day across three separate teams.
- Results were so significant that Rolls-Royce's official corporate billing methodology was updated to incorporate the outputs of the software.
- Acting team lead on a cross-functional ML investigation, applying machine-learning techniques to calibrate theoretical models against rig-test and in-service data.
- Mentored colleagues formally for IMechE Chartered Engineer accreditation; consulted internally on in-service performance methodologies.

## Data Scientist – In-service Performance

### Rolls-Royce (Trent XWB-84 Programme)

Stack: SQL Server, MATLAB, Excel, VBA, Statistical Modelling

Apr 2015 - Jun 2018  
Derby, UK (On-site)

- Quantified the relationship between weather conditions and anomalous engine performance - enabling extended time on-wing and generating [an estimated \\$200 M in additional revenue](#).
- Head-hunted to lead a safety investigation in 2018; developed a technique to detect lagged sensor measurements, maintaining fleet airworthiness and avoiding an estimated £1 M/day grounding cost.
- Owned the production SQL Server engine-performance database and authored Rolls-Royce's corporate SQL training manual.

## Graduate Trainee

### Rolls-Royce (Graduate Programme)

Grad scheme with 6 rotations covering lifecycle engineering, metrology, repair, lifing, and engine performance.

Sep 2013 - Apr 2015  
Derby, UK (On-site)

## EDUCATION & CREDENTIALS

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MEng (Hons) Aeronautical Engineering, 2:1  
Chartered Engineer (CEng)

Loughborough University  
IMechE

Jul 2013  
Mar 2019

## WHAT I'M LOOKING FOR

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- Remote-first role; happy to commute to London a few times per month (max once per week).
- A collaborative engineering culture - I want to work alongside staff/principal engineers and continue growing technically.
- Being part of something bigger. My current team are just outsource for the company, I have no interaction with the wider business.

## NOTABLE SIDE-PROJECTS

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- [Personal website](#): Hosting a range of personal projects and technical blogs:
  - [Fantasy Premier League](#) analysis tool
  - [Flying game](#) with a real hand-written physics engine
  - [A searchable UK TV Guide](#) – Searchable, advert-free alternative to mainstream apps
  - [Mortgage calculator](#) for comparing multiple mortgage options
  - [Wordle solver](#)
  - WIP: A series of [technical blogs](#)
- [Priva-see.co.uk](#) - Document privacy solution
  - Inspired by a TED talk on forced over-sharing of personal information
  - Upload a photo, redact multiple regions, and generate a shareable link / QR code - without exposing the full document
- [Undecked-facilitator.co.uk](#) - Planning scenario simulator
  - Built for a friend's consultancy business
  - Uses websockets for real-time communication between facilitators and participants

For all sites, the ``/uptime/`` path shows any service interruptions on an hourly and daily basis.