

# Guy Taylor

## Senior Software Engineer with over ten years experience

### SUMMARY

I am a Senior Software Engineer and Team Lead with over ten years building systems at scale (distributed, data-heavy, low-latency, ML, geospatial and media) and over five years leading the teams that ship them. I am a problem-solver at heart, at home on low-latency advertising, city-scale geospatial imagery or embedded systems, and quick to pick up a new domain and start delivering. I bring data and AI to messy, real-world problems, design for scale in the cloud, and stay calm when leading through high-pressure incidents. I still love to build hands-on rather than manage from a distance, and I get the most satisfaction from growing engineers: progressing their careers and fostering collaborative teams.

Outside work I have a passion for the outdoors, wildlife and photography, a good balance to the sometimes intangible aspects of software development.

### EXPERIENCE

#### **Perk** (previously TravelPerk) – *Senior Software Engineer, Team Lead*

MAY 2024 - PRESENT

I lead a team of five engineers on a high-volume flight bookings system, owning the team's growth and delivery goals. My project cut booking errors that caused costly manual intervention: I combined AI with large-scale, data-driven ML, scaling it to the data volumes involved and giving it statistical rigour, reducing errors by 66%. I also cut losses from poor, missing and contradictory flight fare data by a six-figure sum through data-driven decision-making. During the Middle East crisis, I led a rapid booking-failure response: reprioritising the team, spotting new issues quickly and shipping pragmatic, targeted fixes that held our error rate below a normal month and protected travel for key business customers. I lead incident response for flights, taking point on high-priority and complex incidents with calm decision-making, short-term mitigations alongside complex database fixes, and post-incident review.

#### **NCTech** – *Senior Software Engineer*

FEB 2021 - FEB 2024

I led all of data: ingestion, storage, processing and delivery. I built a team of three engineers, designing a multi-cloud, multi-region architecture for global data capture, upload, processing and delivery. That design unlocked lucrative international contracts in complex jurisdictions with demanding compliance and contract requirements, delivering efficiencies that improved returns and opened new opportunities. I shipped petabytes of street-level imagery and LIDAR under real commercial pressure, owning offline software, microservice APIs and cluster-compute systems. A strong focus on cloud-native geospatial systems let us serve both big tech and smaller customers worldwide at competitive prices.

#### **NCTech** – *Software Engineer*

MAY 2019 - FEB 2021

I built a geo-referenced 360° VR web viewer for image, video and point clouds, making immersive experiences shareable on ordinary consumer devices. It pushed what was possible over mobile links and limited hardware.

#### **Amazon** – *Software Engineer*

MAY 2012 - JAN 2016

I built large-scale, low-latency services for the Dynamic Advertising program, serving millions of personalised adverts through real-time auctions backed by multi-terabyte ML and analytics platforms.

Resident in Edinburgh, UK  
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### SKILLS

Python, Java, Rust & JS/TS  
Claude, Agentic AI & ML  
Pandas, SQL & Analytics  
Django, NextJS & React  
AWS, GCP, CI/CD & IaaS  
GIS, GeoPandas & PostGIS;  
Image, Video & Point-Cloud  
formats

### LEADERSHIP

Authoring architecture and design docs for system changes, and running review sessions

Hiring, onboarding and upskilling engineers

Line managing and leading agile delivery from sprint planning to shipping

Refining requirements and vision with customers and senior management

Liaising across internal teams and representing the business to external providers and customers, contributing to negotiations, contracts and external requirements

### EDUCATION & AWARDS

#### **The University of Edinburgh** – *BEng Software Engineering*

SEP 2008 - MAY 2012

Focus: embedded systems, FPGAs, operating systems & databases.

#### **US Patent** – *US9894423B1*

A system of "Video advertisement customization by compositing"