

Oliver Kingshott

A software engineering leader with experience in building internal and external platforms from the ground-up.

Technical Skills

Python, PyTorch, Data Engineering, Computational Imaging, Computer Vision, VR / Mobile, Amazon Web Services.

Experience

Citymapper Ltd. Founding Engineering Team (2014 - 2021)

Developed a role as head of city engineering, managing 5 full time engineers.
Architected the data pipeline for real-time transport, handling millions of queries per minute.
Architected internal analytics ETL platform using Amazon Redshift and Apache Airflow, processing 1TB of secure customer data per day.
Developed region-specific data pipelines for processing complex transport disruptions, re-routing millions of customer journeys in critical cities (London, New York, Paris).
Coordinated with product teams to manage city feature development and marketing releases, driving the number of cities supported from 1 to 100.

Air Labs Ltd. Co-founder (2012-2015)

Developed one of the top 10 paid apps for music worldwide on the iOS App Store.

Internships

Computer Vision Software Engineer, Mo-Sys Engineering. (2022 - 2023)

Reported directly to the CEO to develop new products.
Developed a camera-to-GPU inference pipeline for real-time director assistance for live broadcasting, launching a new category of AI products in collaboration with Disney STAR.

Data acquisition intern, Skyscanner Ltd. (2011)

Integrated pricing and scheduling with a Canadian regional airline, improving price comparison engine for international flights.

Education

PhD candidate, Teaching Assistant, University College London (2022 - 2023)

Research Paper: *Unrolled primal-dual networks for lensless cameras*.
Improved the image quality of phase-mask cameras by 5dB using a novel neural network architecture.

Computer Graphics, Vision & Imaging MSc, University College London (2021 - 2022)

Distinction, Dean's List for exceptional academic achievement.
Group project in Virtual Reality featured at IEEEVR 2022.

Computer Science BSc, The University of Edinburgh (2009 - 2013)

Winner of Apple WWDC Student Scholarship (2013) for exceptional mobile app design
President of the Computing Society (2009), created new events and virtual groups, secured sponsorship from industrial partners, raised attendance by 10x.