Tom Curtis

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Experience

Wayve   **Jan 2025 –**

Staff Software Engineer, London - data platform for autonomous driving

- Unblocked launch of experimental vehicles by developing general purpose pipeline components
- Leading effort to empower clients by introducing data contracts and domain-relevant semantics.
- *Python, Spark, Databricks, Bazel, Terraform, Azure*

CrowdStrike   **Mar 2024 – Oct 2024**

Senior Software Engineer II, London - managed services, backend

- Cut multi-customer API latency >50% across ~100 routes by enabling queries over smaller scope.
- Reduced CI build times by 50% for 20-service git repository using static analysis and profiling.
- *Go, REST, Postgres, Jenkins, Python, Splunk, Logscale, Grafana, ElasticSearch*

Google   **Feb 2017 – Jul 2023**

Senior Software Engineer, London - clinical tools, backend/NLP   *(Nov 2021 – Jul 2023)*

- Added NLP processing for dosage data in conflicting text fields in 100M+ patient records.
- Launched two experiments in clinician-facing desktop and Flutter app.
- Company-wide Java readability mentor / approver conducting >100 candidate reviews.
- *C++, Java, Typescript, Dart, Boq Web, Flutter, Spanner (DB), Flume (Beam), Mendel (experiments)*

Senior Software Engineer, San Francisco - anti-abuse MLOps infrastructure   *(Nov 2018 – Nov 2021)*

- TL then TLM for 6 engineers for platform training and serving 40 ML pipelines, including main Gmail spam model. Models served up to 1.3 million QPS and trained on 1B+ examples.
- Owned technical roadmap for reducing iteration cycle from hours to under 5 minutes.
- Designed/built data monitoring, including privacy-compliant analysis of 10k QPS of live traffic.
- Led development for new data sources, static config analysis, anonymisation, improved config format, evaluation flow supporting more task types, scaling analytics queries.
- *C++, Js, Go, Python, Flume (MapReduce), Borg (k8s), Dremel/F1 (DB), Plx (OLAP), Tensorflow, TFX, Servomatic, Colab (Jupyter), Tricorder (LSP), Rapid (CI/CD), Pubsub (Kafka), Colossus (S3)*

Software Engineer III, Mountain View - ML for customer support, ML/backend   *(Feb 2017 – Nov 2018)*

- Scaled from 100 to 600 automatic ML pipelines by creating labelling, eval and release stages.
- Launched models powering new contact flow for visits to AdWords help centre (~ 600QPS).
- Designed and launched sampling process controlling workload for 15 reviewers.
- *Java, Apps Framework, Flume (MapReduce), Bigtable (NoSQL), Dremel/F1 (OLAP), Stubby (RPC), Monarch (monitoring), OnePlatform (API gateway)*

KPMG   **Sept 2010 – Dec 2015**

Manager, Forensic, London

- Investigated complex fraud and financial crime matters for large corporate clients.
- My financial analysis was key to our client winning the UK's 3rd largest civil case of 2014.

Education

MS Computer Science, Georgia Institute of Technology	2021 – 2024
ACA, Institute of Chartered Accountants in England and Wales	2010 – 2013
MSc Philosophy, University of Edinburgh	2009 – 2010
MA (Hons) Philosophy, University of Edinburgh - first class	2004 – 2008