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 (Cl/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

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- 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