

HECTOR DEARMAN

TECH LEAD

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Cambridge, UK

Full stack tech lead with experience leading systems software projects. I've worked on zero-copy C++ tracing systems, kernel internals, TypeScript frontends — and everything in between — to rebuild performance instrumentation for two billion user products from scratch.

WORK

EMERGE TOOLS (YC W21)

SENIOR ANDROID ENGINEER

2024—present

GOOGLE, UK

SENIOR SOFTWARE ENGINEER L5 (L3 → L4 → L5)

8 years

2015—2024

Perfetto — <https://perfetto.dev>

- Greenfield, open-source, system profiling, app tracing, trace analysis, and visualisation tooling
- 2nd joiner, grew team from 2 to 15 members and 0 to 400k LOC over 6 years
- Perfetto adopted by 25+ teams including Android, Chrome, ChromeOS, tflite, Pixel, WearOS, Waymo, Nest, Android TV, Android Studio, Android Graphics Inspector, Google Search, Mediapipe, Go, Dart, Fuchsia, Stadia, Google Camera App, gChips, ARM, Meta, AMD, Oculus, Jane Street, Envoy, Postman, Bytedance, Collabora, Samsung, Deepmind
- 500+ code reviews & 250+ commits per year
- Co-authored a zero-copy, multiprocess, lockfree, shared memory, tracing system C++, PROTOBUF
- Integrated Perfetto with kernel tracing using C++ (>100k event/s on consumer phones) KERNEL, C++, PROTOBUF
- Led creation of <https://ui.perfetto.dev> (~35k MAU) WASM, TYPESCRIPT, CSS, SQL
- Designed and rolled out field tracing monitoring to ~1.5bn Android devices JAVA, C++
- Ran [Tracing Summit 2022](#), a public, three day conference with 80+ attendees and 15+ speakers
- Presented at Google wide performance summit with 700 attendees
- Organized 9× 70-90 person [codebar.io](#) workshops
- Co-hosted 7 interns, on-boarded 6 new joiners, conducted 20+ technical interviews
- 12× spot bonus, 16× peer bonus, 2× kudos
- *Chrome* — Implemented memory telemetry for >2.5bn MAU Chrome users JAVASCRIPT, C++
- *Android Wear* — Software prototyping for unreleased hardware project by the Glass team JAVA

SOFTWARE ENGINEERING INTERN

2014

- *WebView* — Sped up CI 3.5× 50→15 min, shipped new APIs in Android L JAVA, C++, PYTHON

AWARDS

- [OpenUK: New Year's Honours List \(2024\)](#)
- Chromium Committer

EDUCATION

IMPERIAL COLLEGE LONDON

MENG COMPUTING (SOFTWARE ENGINEERING)

2011—2015

- First class honours (80.6%)
- Thesis: *Exploring Optimisations for the Local Assembly phase of Finite Element Methods on GPUs*
- 5× prizes: Morgan Stanley IT Prize, G Research (Academic Achievement), Credit Suisse Prize (Group Project), Departmental Prize for Excellence, Engineering Dean's list (2014)

EXPERIENCE

Python 15yr	Javascript/node 10yr	HTML/CSS 10yr	Android 8yr	git 10yr
C++/C 10yr	WASM 4yr	SQL 8yr	GN 10yr	Linux 10yr
TypeScript 5yr	Java 5yr	sqlite 5yr	ninja 10yr	Bash 10yr