Joon Son

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EXPERIENCE

Google Health, Senior Software Engineer — London, April 2026 – Present

- Drove the AI Google Health Coach (>1M DAU) to launch by redesigning agent architectures, overhauling tool APIs, and building autonomous optimisation loops.
- Tasked by leadership with building a skunkworks coaching agent outside Google infrastructure to iterate at startup speed, delivering a new agent architecture and memory system now being upstreamed to the production app.
- Currently building RL environments to expand the frontier of agents for personalised health intelligence.

Watershed, Software Engineer — London, August 2023 – May 2025

Climate tech platform (Series C; backed by Sequoia, Kleiner Perkins)

- Led a team of three to ship an auditable approvals flow for enterprise-scale corporate reporting across a **TypeScript**-based stack. Drove key product decisions, defining change-propagation and locking semantics to meet high-stakes provenance requirements.
- Conducted a platform-wide investigation into data scaling bottlenecks to mitigate risks before onboarding high-volume customers, delivering a >10× speedup to a core compute path and establishing infrastructure best practices.
- Built Watershed's first geospatial data pipeline with **DuckDB**, saving dozens of hours of manual work per customer by enabling automated spatial analysis of customer facilities against >10,000 biodiversity sensitive areas. Introduced foundational infrastructure and abstractions for spatial processing to enable reuse across the company.
- Joined the company's highest-priority tiger team to build support for major new compliance requirements from 0 to 1. Operated with high ownership, rapidly implementing ingestion flows and resolving cross-platform issues to unblock customers and meet contractual commitments under tight timelines.
- Second engineering hire in the London office, subsequently helping the team scale to 10.

Google for Clinicians, Software Engineer — London, October 2021 – July 2023

- Owned the team's specialised clinical data sampling pipeline to generate realistic synthetic traffic to ensure correct and safe releases. Go-to expert providing support on load generation tooling in a team of >60 engineers.
- Launched high-impact features for surfacing clinicial insights for Google's flagship clinical product, including data pipeline enrichments, API design, testing, and monitoring using **TypeScript**, **Java**, and **C++**.
- Optimised hot paths in **C++** backend services handling high-volume clinical workloads, reducing tail latency by 50% through improved memory management and query optimisation.
- Mentored new engineers, including hosting an intern to successfully deliver their project over 12 weeks.
- Promoted in under one year (top 2% of cohort); 13 peer bonuses.

Google for Clinicians, Software Engineering Intern — London, May 2020 – October 2020

- Added support for emitting clinical pathway events in multiple resource formats to Simulated Hospital, Google's open-source synthetic health data generation tool, in **Go**, delivering the project four weeks ahead of schedule.
- Designed and implemented a persistent caching framework in **Dart** for Google's clinical mobile app to facilitate offline use and improve the latency of critical user journeys.

Google Ads, STEP Engineering Intern — London, July 2019 – September 2019

- Wrote a resource optimisation tool for a distributed data synchronisation service in **Go**, resulting in 52% projected RAM utilisation savings in production pipelines by applying computed optimal resource footprints.

EDUCATION

Imperial College London — September 2017 – July 2021

- MEng Computing, 1st Class Honours

PROJECTS

Semantic Synthesis of Diabetic Retinal Fundus Images — October 2020 – June 2021

- Master's thesis proposing a novel GAN-based process for generating synthetic retina images. Models trained on a synthetic data mix performed better on diabetic retinopathy detection compared to baseline.
- Preliminary results presented as a short paper at *MIDL* 2021.

Automated Image Analysis for Gene Therapy — October 2019 – July 2020

- Led a team of six to develop a cell segmentation algorithm with 10% more accuracy compared to previous methods.
- Publication in collaboration with *Cambridge University Neuroscience* accepted into *JORS*.

VOLUNTEERING

School Governor, Growth Learning Collective — October 2022 – August 2025

- Appointed as a member of the governing board to oversee strategy, vision, and finances for a total roll of >700 pupils and £5m income.