

Lucy Sweet

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EXPERIENCE

Anthropic

August 2026 - Present

Member of Technical Staff

- I work on training and serving frontier AI models.

Uber

December 2022 - August 2026

Staff Software Engineer

- Technical lead for one of the largest Kubernetes end-user deployments in the world: over 5 million CPU cores across 200+ clusters, serving all of Uber's compute workloads globally.
- Sole code owner of Uber's Kubernetes fork and the only upstream governance representative for the company. Every service at Uber runs on infrastructure I have final authority over.
- Member of leadership of the Kubernetes project itself (Node Lifecycle WG Lead), setting the strategic direction of Kubernetes for the entire industry. Identified internal platform pain points and drove them into upstream Kubernetes as standard features.
- Rewrote a core component of Uber's Kubernetes control plane, reducing API server load by 99.5% and resolving a persistent source of cluster instability at scale.
- Designed and shipped an internal framework for building Kubernetes controllers, now the standard across six teams and used to manage workloads handling millions of requests per second.
- Incident Commander for Uber's highest-severity infrastructure incidents, directing cross-functional response across dozens of teams and hundreds of engineers during outages affecting core business operations. Uber's CEO (Dara Khosrowshahi) organised a standing ovation for me by the executive leadership team for my work during one of Uber's biggest outages.
- Served as subject-matter expert in legal proceedings, contributing to a seven-figure reduction in liability exposure.
- Presented our work and have given talks about building systems at scale in front of thousands of people at multiple conferences. Quoted in the press discussing Kubernetes and distributed systems.

DailyPay

May 2022 - September 2022

Staff Software Engineer

- Tech lead on a team of 8 focused on internal tooling and making the lives of other engineers easier.
- Working as part of engineering leadership to shape company priorities and consult on the most critical business needs.

Monzo

May 2021 - May 2022

Infrastructure Security Engineer

- Part of the 4-person team responsible for securing Monzo's infrastructure and providing the foundations for other engineers to build upon inside one of the biggest banks in the UK.
- Managing vault clusters used across the entire company to let developers safely store and use our most sensitive secrets.
- Personally designed and ran the Monzo Root CA program, which underpins systems handling billions of dollars in financial transactions and data:
<https://monzo.com/blog/2021/11/18/protecting-our-most-sensitive-secrets>

Team Adopt Me Uplift Games

September 2019 - May 2021

Systems Engineer

- Designed, created and maintained the core of the company's infrastructure, handling over 60 million monthly active users.
- Owned and managed the entire lifecycle of massive systems at scale coping with workloads exceeding billions of requests per day. Built a database that handled over 7 million requests per second.

Google

July 2017 - September 2017

Tech Intern

- Designed and deployed from scratch a new web security scanner focused on having no false positives. <https://github.com/google/tsunami-security-scanner>

EDUCATION

Brunel University London

2016 - 2019

BSc Computer Science (Artificial Intelligence)

1st Class Honours

AWARDS

Google Vulnerability Research Grants Program (Invited Expert)

2018 - 2022

<https://www.google.com/about/appsecurity/research-grants/>

- I was regularly awarded Research Grants as part of the Google Vulnerability Research Grants Program. A closed, invite-only program for "top performing, frequent vulnerability researchers as well as invited experts".

Google Europe Scholar

2018 - 2019

- One of 3 UK recipients of the Google Europe Scholarship for Students with Disabilities for the year.

Internet Society Fellow to the United Nations IGF

November 2018

- I attended the 13th Annual Meeting of the United Nations Internet Governance Forum with the financial support of the Internet Society, with a particular focus on Cybersecurity, Trust and Privacy.

PROJECTS

A decentralized computation platform

2018-2019

BSc Dissertation / Final Year Project - <https://lucy.sh/DScript.pdf>

- I built my own cryptocurrency as an experiment in whether I could optimise on existing systems such as Ethereum by improving efficiency.
- I invented a set of new algorithms that: Use psuedo-random selection to delegate expensive problems to a subset of the nodes, quickly gain consensus across a set of nodes as to a large list (Broadcast Consolidate Resolve Affirm) and create a random number among many non trusted nodes (Multiparty Pin Seeding).

Google Tsunami Security Scanner

July - September 2017

- A prototype no-false-positive vulnerability scanner that was scaled to Google's internal cloud usage. The prototype I built with another intern during my internship was developed on and eventually open sourced at <https://github.com/google/tsunami-security-scanner>