

# GABOR CSAPO

Email: [gaborxcsapo@gmail.com](mailto:gaborxcsapo@gmail.com)

Phone: +1 650 318 1434

Portfolio: [gaborcsapo.com](https://gaborcsapo.com)  
[linkedin.com/in/gabor-csapo](https://linkedin.com/in/gabor-csapo)

Hi! I'm a high agency data engineer with 7 years of experience and proven ability to translate ambiguous research goals into robust, scalable systems that directly improve model performance and fairness.

Data Science (Python) • Full Stack Web Dev (JS) • Cloud (GCP) • Data Visualization (D3.js) • Embedded Systems (C) • Agents  
ML Evaluation Tooling • Dataset Curation • Annotation Systems • Human Data Collection • Computer Vision • Research

## Experience

---

### Senior Software Engineer | Google Labs

San Francisco | Jul 2023 – Now

- Architected the data flywheel for the computer vision research team of Google Beam (3D video calling without headset), encompassing data collection, annotation, curation, and evaluation systems across several multi-year projects.
- Engineered a data curation library with programmatic sampling strategies. These tools became the team standard and raised model performance by 4% across all key metrics by optimizing training data selection.
- Developed a novel annotation system using LLM agents to autonomously label video data across 50+ tasks, winning an internal AI innovation award and drastically reducing manual annotation costs.
- Redesigned the human data collection and curation process, increasing the acquisition of high-quality training data by 3x YoY.
- Developed a custom fairness evaluation framework, ensuring equitable performance across demographic groups.

### Software Engineer | Google Nest

Taipei | Oct 2019 – Jul 2023

- Shipped critical SW for millions of the next-gen Nest Camera with on-device ML (Lead) and the Nest Learning Thermostat (IC). Managed full product lifecycle from prototype through mass production, handling releases, feature prioritization, and testing.
- Developed sensor fusion algorithms for presence and intent detection, directly contributing to core smart home user experiences.
- Optimized low-level algorithms for power efficiency, extending the idle battery life of a flagship device by 10%.

### Data Engineer | Goldman Sachs

London | Jul 2018 – Aug 2019

- Re-engineered a legacy intraday risk data pipeline to a real-time microservices architecture (AWS, Kubernetes, Hazelcast), reducing data lag from minutes to seconds for millions of daily trades.

### Creative Media Awards Winner | Mozilla

Remote | Jul 2018 – Jun 2019

- Designed an educational website teaching algorithmic bias and AI accountability, awarded \$31,500 from Mozilla with recognition from DeepMind, UNESCO, and Government of Canada. Reached 102,000+ global learners with the tool adopted by major universities, delivering workshops on ML ethics and responsible AI design.

## Education

---

### B.Sc. Computer Science | New York University Abu Dhabi (NYUAD)

Sep 2014 – May 2018

Minors in Economics and Design, GPA: 3.88, Honors Scholar Award, Full Scholarship

NYUAD is New York University's campus in Abu Dhabi, and I also spent semesters at the Shanghai and New York campuses.

## Personal Projects

---

### Contributor & Advisor | Urban AI Think Tank

2022 – 2025

Authored the most popular blog post of 2024 on the politics of batteries, and contributed a chapter to a book about Urban AI. Led workshops on the intersection of AI, and urban planning for a redevelopment project of the Champs-Élysées in Paris.

### Open Source Contributor | DAPLink

2023

Led a team of 3 to develop a novel debugging solution, contributing the code upstream to the core DAPLink project. The work was presented at the 2023 Open Source Firmware Conference and is now used by hundreds of engineers.