# Elliott Murray

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Technical founder and software engineer with ten years leading technical work as a founder and CTO, across production software, AI systems and security. Building on LLMs since 2020 as one of GPT-3's first 1,000 developers. Available for empirical AI research full-time from early 2027.

## EXPERIENCE

**Empirical AI research** — silent speech and evaluation Nov 2026

- Built a local macOS dictation app with a fine-tuned 0.6B transcript corrector (validated out-of-time on 120 recordings from 11 months earlier: 3.2% vs 4.3% word error), then fine-tuned an open lip-reading model (Auto-AVSR) on Modal and paired it with Claude to cut silent mouthed word error from 53% to ~10%.
- Audited why the first scores overstated performance: a memorised standard benchmark (perplexity 4.9 vs 83.5), single-run seed variance (addressed by averaging four seeds' weights), and a leaky AI-agent evaluation that saw all 15 test items at once (13 of 15 exact; 9–10 at best re-run blind).
- Tested cross-speaker transfer on external corpora: fine-tuning on one speaker (Cornell SoniSpeech) cut their word error from 74% to 12%, but degraded performance on 42 unseen speakers (TaL80: 84% to 93%).

elliott.md/silent-speech · github.com/devoided/silent-speech-eval

**Technical founder** — Postwise AI and Warmer.ai 2021 – present

- Architected, shipped and operated Postwise end to end: an AI writing tool for LinkedIn and X with 50,000 users, from custom models and inference pipelines to billing and operations. It now runs hands-off and is winding down; Warmer.ai, an earlier GPT-3 product, has closed.
- Responsible for OAuth access to post as 50,000 people: kept their tokens secure, and built the human-in-the-loop review and output filters OpenAI required, keeping generated posts within safe, expected bounds.
- Rebuilt Postwise's security under fire when an LLM-driven attack probed it continuously for a month, hunting for exposed endpoints.

**Technical founder** — WebProtect Jan 2019 – Sep 2021

- Built credential-theft monitoring and exposure-mitigation tooling for organisations and high-profile individuals; advised Fortune 500 clients on data-exposure risk.
- Discovered ~220 million Facebook users' phone numbers exposed on an unprotected server, a day after Facebook said the leak was offline; verified it live for CNET (also reported by The Verge).

**Co-founder and CTO** — Lightning Social Jun 2018 – Feb 2022

- Architected and built the company's platform for creator discovery, campaign analytics and ROI reporting across major-label music campaigns reaching over 800 million people.

**Head of Innovation, founding team** — Social Chain 2015 – 2017

- Founding-team technical lead at Social Chain (co-founded by Steven Bartlett, *The Diary of a CEO*). Built internal campaign systems and workflow automation replacing manual processes previously run by teams of 4–5, for clients including Microsoft, Apple, Universal, Amazon and Fox.

## EDUCATION

**De Montfort University** — First-Class Honours, Technology and Innovation 2012 – 2015

- Final-year project: spatial-audio software for virtual reality, built with Two Big Ears (a company later acquired by Facebook) and showcased at Spotify HQ in Sweden. Spotify MIDIHACK winner, 2015.

## TECHNICAL

Python, PHP (Laravel), JavaScript, Swift · LLMs: fine-tuning, evaluation, OpenAI and Anthropic APIs · PyTorch, GPU training on Modal · Security: exposure monitoring, incident response, hardening