

emma brown

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education

2023 - 2025 **University of California, Santa Barbara, USA**
MS Media Art & Technology

2013 - 2017 **The University of Edinburgh, UK**
Scottish Master of Arts (Honours) Economics

work experience

2025 **Program Tech Lead** @ [Distyl.ai](#), [San Francisco](#)
★ AI Engineer leading a **30-person Forward Deployed Engineering team** building one of the largest CX deployments in the world (**100k daily convos**), reporting directly to the **C00**

2024 - 2025 **AI Engineer** @ [Opponent Systems](#), [New York, USA](#)
★ Part-time role with artist Ian Cheng developing a real-time audiovisual AI agent leveraging custom neuro-symbolic cognitive architecture using **Python, Weaviate, OpenCV, PyTorch, FastText, & S-BERT**
★ Implemented agent memory using traditional **RAG** with **vector databases** and **MeTTa** & built a synthetic data generation pipeline

2021 - 2023 **Software Engineer II** @ [Air](#), [Brooklyn, USA](#)
★ Backend engineer driving full-stack feature development & infrastructure optimization, working on **API development (Node.js, TypeScript, Knex.js), event-driven architecture (serverless), & cloud infrastructure (AWS)**
★ Responsible for maintaining 24/7 production reliability through on-call rotations & comprehensive test coverage using **Jest**

2019 - 2021 **Software Engineer** @ [The Wall Street Journal](#), [New York, USA](#)
★ Designed & led development on a full-stack report-generating application used daily by newsroom strategists with **SQL, Flask, DynamoDB, & SQS**
★ Won **BBC NewsHack's** "Best Editorial Tool" for [a new index](#) for our article data - a "source" index (as opposed to topic or byline indexing) that provides measurable source diversity & a new way of exploring content

2017 - 2019 **Data Analyst** @ [Schireson Associates](#), [New York, USA](#)
★ Fast-paced role providing analytics using **SQL & Python (pandas)** knowledge, tight turnarounds, attention to detail, & a deep technical understanding of a **machine learning** application for targeted advertising

skills

[MeTTa/OpenCog](#), Typescript, Node.js, Next.js, Python, C#, SQL, R
AWS, GCP, Weaviate, Terraform, Vagrant, Docker, CUDA
Unreal Engine, Unity3D

freediving, inline skating, guqin