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

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
- \star 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 <u>a new index</u> 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
- 2019

<u>Data Engineer</u> @ Quilt.ai, <u>Singapore</u>

- ★ Contractor managing a team of interns to develop and deploy a data pipeline to process 250,000 home rental listings alongside text & images from 12m reviews & 2m images using GCP, Flask & pandas
- 2017 2019 <u>Data Analyst</u> @ <u>Schireson Associates</u>, <u>New York</u>, <u>USA</u>
 - ★ 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, gugin