

Max Lever

empathetic engineer working at the intersection of technology, ethics, and creativity

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<https://maxlever.me>

Education

Northeastern University

Boston, MA. September 2013–June 2018

- BS, Computer Science, Interactive Media, Ethics. *summa cum laude*. 3.9 GPA
- Honors Program with Distinction; Dean's Scholarship; Marshall Scholarship finalist
- Coursework at Sciences Po Paris

Skills

- Backend: NodeJS, GraphQL, Flask, Django, Elixir Phoenix, Java, C++
- Frontend: React, TypeScript, NextJS, D3
- Data stores: Postgres, DynamoDB, Redis, Neo4J, BigQuery, Elasticsearch
- Infra: AWS EKS, ECS, Lambda, Batch, GCP, Cloudflare, Kubernetes, Docker
- CI/Testing: Jenkins, Cypress, Percy, Jest
- Natural languages: native French and English, working Spanish

Projects

Parsons School of Design

New York, NY. September 2020

- Guest lecturer on AI ethics; reviewer for *Integrative Research & Development*.

CoreWoman.org, Mentor, Consultant

New York, NY. May 2019–present

- Interviewed, recruited, and trained a junior engineer based in Colombia to develop features for the nonprofit; in Spanish and English.
- Led development of an application for social workers to analyze KPIs of entrepreneurs and help them develop skills, in particular those who have been victims of gender-based violence.

Open Source

- Contributed to the AMP framework and the ProseMirror library.

Experience

Axios, Full Stack Engineer

New York, NY. August 2019–present

- Architect and maintain multi-tier systems serving millions of requests per day using NodeJS, GraphQL, Django, Cloudflare, and EKS, collaborating with Editorial, Ad Ops, Growth, and Product teams.
- Spearheaded first-party cookie architecture, writing RFCs for data team and product leadership.
- Integrated ML content recommendation architecture using AWS Batch, CloudWatch, Lambdas, and asynchronous Python Celery workers.
- Presented on AI ethics, taught engineers about Cloudflare Workers and A/B experiments, and wrote on-call runbooks and extensive documentation.
- Set up caching infrastructure and load testing tools under pressure of deadline. Improved GraphQL API's maximum throughput by 600%.

Artmatr, Lead Software Engineer

New York, NY. November 2018–June 2019

- Built robots for painting and printing large-scale artworks. Collaborated with blue-chip artists.
- Wrote C++ firmware for radio signaling, debugged printing fluid dynamics, and built multi-threaded simulation tools.
- Established agile process for the engineering team.

Harvard Berkman Klein Center, Consultant

Austria; Poland; UK; USA. August 2018–January 2019

- Conceived interactive art installations at Ars Electronica and Mozilla for an artist addressing AI ethics.

MIT Media Lab, Developer and Designer

Cambridge, MA. January 2017–January 2019

- Collaborated with AI researchers and social scientists on making state-of-the-art research accessible in a fun interface for reading emotions.
- Designed tools for generating ideas, working with a creativity researcher. Deployed GCE instance with Neo4J graph database of millions of semantic relationships, visualized with D3.