MICAH J SMITH

micahjsmith@gmail.com 🔀
+1 805 657-2325 🖀
www.micahsmith.com 🌐
Boston, MA & remote 💿
he/him 🕅

EDUCATION	he/him 🧟
Massachusetts Institute of Technology, Department of EECS Ph.D., Computer Science Thesis: Collaborative, Open, and Automated Data Science	2016–2021
<i>Columbia University</i> , Columbia College B.A., Economics-Mathematics, <i>cum laude</i>	2010–2014
PROFESSIONAL EXPERIENCE	
 OpenEvidence (Cambridge, MA) — Infrastructure Lead/Machine Learning Engineer I own backend, site reliability, DevOps, infra, security, compliance, on-call (GCP, Django, Pos GitHub Actions, Terraform, HIPAA) as the Technical Lead of the Core Engineering team Led architecture, design, backend/data implementation for complex integration of <u>ClinicalKe</u> delivered from prototype to GA in 6 mo., and launching into US hospitals Lead ML infra efforts for finetuning and inferencing large language models for healthcare I also do recruiting, hiring, people management, and project management for Eng team 	
 Twitter (Boston, MA) — Machine Learning Engineer Developed machine learning platform frameworks and infrastructure on the ML Pipelines tea Kubeflow Pipelines, TensorFlow, Beam, BigQuery/Dataflow) Supported training workloads for home timeline ranking and ads prediction models (100mm Wisely bounced of my own free will before Elon took over 	
 MIT LIDS, Data To AI Lab (Cambridge, MA) — Graduate Research Assistant Researched ML systems, human-computer interaction, and databases, advised by Dr. Kalya Veeramachaneni 	2016–2021 n
 Botkeeper (Boston, MA) — Machine Learning Engineer (part-time) Led company-wide ML engineering efforts in transaction classification for accounting Designed and implemented cross-client transaction embedding, automatic model retraining, collection/storage/querying/reporting (Python, Tensorflow/Keras, scikit-learn, MongoDB, Kuk 	
 Federal Reserve Bank of New York (New York, NY) — Senior Research Analyst Performed statistical and econometric analysis for projects including macro forecasting, mor analysis, consumer expectations, and subprime mortgages (Julia, MATLAB, Stata, SQL, Pyth) 	
SKILLS General Python TypeScript JavaScript Java Bash Julia C++ C Scala MATLAB Haskel ML pandas numpy sklearn tensorflow OpenAI pytorch matplotlib seaborn keras statsmodels Data Postgres MongoDB SQL Airflow SQLAlchemy Spark Dask BigQuery Beam Dataflow DevOps Python packaging Docker k8s GCP terraform AWS Heroku GitHub Actions/Apps Travis Web Django DRF React Next.js MUI node jinja2 HTML/CSS pelican Tools git GitHub GitHub (stlab Jupyter Lab/Nb/Hub *nix LaTeX make (sphinx) Bazel (invoke)	TFX Kubeflow

ACTIVITIES

- Open-source development: BTB, ATM, AutoBazaar, ballet, Assemblé, DSGE.jl, FredData.jl, repolockr
- Running, biking, tennis, reading, coffee, crosswords, chess, playing with my dog Mamba

SELECTED PUBLICATIONS

- "Do we still need clinical language models?" CHIL 2023.
- "Enabling collaborative data science development with the Ballet framework." CSCW 2021.
- "The ML Bazaar: Harnessing the ML Ecosystem for Effective System Development." SIGMOD 2020.
- "Query optimization for dynamic imputation." VLDB 2017.