

EDUCATION**Columbia University** | New York, NY | 2020–2022

- M.S. in Computer Science • M.S. in Journalism

California Institute of Technology (Caltech) | Pasadena, CA | 2015–2019

- B.S. in Mechanical Engineering • B.S. in Business Economics & Management
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SKILLS**AI / ML dev:** LLM API integration • Prompt engineering • Agent workflows • RAG systems

- Natural Language Processing • Deep learning for computer vision

Software engineering: Python (Pandas, NumPy, Scikit-Learn, Keras, OpenCV, NLTK, Flask)

- Database handling (SQL, PostgreSQL, SQLAlchemy) • Web app development (Django REST Framework)

- Geospatial analysis (GeoPandas) • Statistical modeling (R, MATLAB)

Languages: English, Hindi, Bengali (native) • Urdu (conversant)

WORK EXPERIENCE**POLITICO — Artificial Intelligence & Special Projects Reporter**

Washington, D.C. | June 2022 – Oct 2025

National AI correspondent: Built & ran a live intelligence operation across two Presidential administrations, deeply sourced among lobbyists, unions, civil rights groups, tech executives, White House staff, and Congressional offices.

- Scooped 6 major Presidential executive orders on AI, including Pres. Biden’s 111-page mandate to manage AI risk and Pres. Trump’s efforts to expedite data center construction.
- Covered AI platform licensing negotiations with media corporations; investigated adoption failures at the Pentagon, DHS, and Labor Department; broke news on frontier AI company lobbying.
- Regularly briefed senior leadership on editorial viability of new AI tools, Silicon Valley’s presence and activity in Washington, and AI adoption trends that could impact newsroom operations.

Brown Institute for Media Innovation — Senior Research Fellow

New York, NY | Sept 2021 – Aug 2022

Led data research for local newsroom investigations across the U.S. Some highlights for NPR/KQED:

- Surfaced hidden fentanyl fatality trends in California counties through programmatic analysis of death records.
- Used NOAA satellite data to build a granular wildfire smoke exposure database across all U.S. census tracts over a decade; identified disproportionately impacted populations using multivariate regression and heat maps.

The Washington Post — Newsroom Engineering Intern

Washington, D.C. | May – Aug 2021

- Designed and shipped a minimum viable face-indexing architecture built on Amazon Rekognition and Meta’s FAISS clustering model for the visual investigations team — a tool for identifying subjects across a large-scale video corpus.
- Built newsroom-wide document forensics pipeline: OCR, redaction handling, metadata extraction, lossless compression, web publication.

The History Lab, Columbia University — Research Assistant

New York, NY | Oct 2020 – Feb 2021

- Built scalable NLP pipeline converting thousands of scanned, redacted CIA cables into structured, searchable data; developed ML tool to surface high-signal communiqués via sentiment analysis and frequency modeling.
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SELECTED PROJECTS**Fossil Fuel Extraction Impacts Database** — Full-stack app mapping environmental impact around U.S. fossil fuel and natural gas extraction sites. Built a custom PostgreSQL database with Flask backend; Google Maps API for frontend.**Synthetic Opioids Online Supply Chain Investigation** — Analyzed 16,600+ darknet narcotics listings via exclusive API access to map international synthetic opioid trafficking networks across clearnet and darknet platforms; identified an emerging class of novel opioids (Nitazenes) whose local emergence was subsequently confirmed by law enforcement.