

(862) 485-2255  
New York, New York  
tyler.cross@me.com

# Tyler Cross

## Machine Learning Engineer

Personal Site: [tylercros.me](http://tylercros.me)  
[github.com/tylermarcuscross](https://github.com/tylermarcuscross)  
[linkedin.com/in/tyler-cross192](https://linkedin.com/in/tyler-cross192)

Machine Learning Engineer with a unique background transitioning from direct patient care as an EMT to building end-to-end ML systems in healthcare. Passionate about leveraging predictive modeling, data systems, and machine learning to solve complex human-centered problems, combining technical expertise with deep understanding of end-user needs.

### SKILLS

<b>Tools &amp; Languages</b>	Python, TypeScript, SQL, React, Firebase, R, Git, dbt, Docker, Kubernetes, Spark
<b>Platforms &amp; Services</b>	Google Cloud Platform (GCP), AWS, Azure, BigQuery, Looker, Snowflake, Databricks
<b>Libraries &amp; Frameworks</b>	scikit-learn, XGBoost, PySpark, PyTorch, TensorFlow, pandas, NumPy, FastAPI, Node.js

### EXPERIENCE

**Data Analyst** **May 2023 — Present**  
*Ophelia Health* *Brooklyn, New York*

- Lead ML developer for clinician availability and capacity management. Designed prediction algorithms using XGBoost/scikit-learn to optimize provider availability across all appointment types. Engineered full-stack solution (BigQuery, dbt, TypeScript, Python) integrating with Acuity Scheduling API.
- Lead data engineer for asynchronous visit scheduling transition. Developed Python/dbt pipelines and collaborated on TypeScript backend services. Implemented intelligent capacity balancing system for 8,000+ patient routing.
- Architect of financial reporting and claims processing systems. Built comprehensive dbt/LookML infrastructure for financial reporting. Partnered with engineering to automate Candid Health claims submission.
- Lead developer for provider utilization analytics platform. Architected ETL pipeline combining Python, dbt, and LookML for real-time provider insights. Implemented complex SQL logic for patient attribution and visit metrics.

**Care Coordinator** **Nov 2021 — May 2023**  
*Ophelia Health* *Brooklyn, New York*

- Lead pharmacy network optimization initiatives while serving in patient-facing role supporting clinicians in delivering comprehensive care. Leveraged SQL and Google Maps to plot all patients and pharmacies, creating a predictive model for pharmacy quality.
- Promoted to care team leadership position. Assisted director with executing 30% reduction in force. Built capacity planning model under COO to predict patient growth and headcount needs. Worked cross-functionally with clinical and operations teams to establish company's first structured discharge and referrals process.

**Emergency Medical Technician** **Feb 2017 — Aug 2022**  
*GEM Ambulance & MSHVFAS* *Totowa & Millburn, New Jersey*

- 911 EMT responsible for both emergent and non-emergent calls within New Jersey, Pennsylvania, and New York. Managed hundreds of COVID-19 positive patients, averaging 3-5 per day, during the height of the pandemic.
- Worked intimately with fire, police, paramedic, and emergency room services to deliver patient care.

**Consultant** **Jun 2019 — Dec 2019**  
*LifeSciences Consultants* *Milan, Italy*

- Quantitative analyst of insurance claims data, epidemiology, and prescribing patterns. Facilitated go-to-market strategies for rare disease treatments utilizing cell and gene therapy.
- Led market adoption planning across U.S., Canada, U.K., and European markets for clients including Celgene, Roche, Takeda, and bluebird bio. Reported directly to global managing partner and European office principal.

### EDUCATION

**MS, Data Science**, *University of California, Berkeley*, 3.94 **Aug 2023 — Present**

- Relevant coursework: Machine Learning at Scale, Machine Learning Systems Engineering, Applied Machine Learning, Statistics for Data Science, Natural Language Processing with Deep Learning

**BA, Philosophy**, *Cornell University*, GPA: 3.95 **Jan 2020 — May 2023**

- Selected coursework: Decision Theory, Epistemology, Philosophy of Language, Modern Philosophy, Hellenistic Philosophy, Big Data on the Social World

### ACTIVITIES

Treasurer of [Watermargin Cooperative](#) **Sep 2021 — May 2023**

Treasurer of [Fanclub Collective](#) **Sep 2020 — May 2022**

Other interests: Aquariums / Terrariums, Music Production, Volleyball, Interior Design