

## Max Matkovski

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### Experience

#### Ontra Mobility (YC S24) – Transportation SaaS

San Francisco, CA

##### Machine Learning Engineer

2024 – 2025

- Served as the company's first ML/data hire, owning data infrastructure, operational analytics, and model-driven workflows across 2,000+ weekly public transit rides, using Python, SQL, and PostgreSQL.
- Built end-to-end ingestion pipelines for real-time vehicle telemetry, converting Protobuf → JSON and streaming raw packets through AWS Kinesis and AWS Lambda, processing 50k–100k daily pings stored in AWS S3.
- Cleaned, validated, and structured large-scale mobility datasets using Pandas and geospatial techniques, reducing noise by ~25% through outlier filtering and data cleaning, enabling reliable ML experimentation with scikit-learn.
- Collaborated with the CEO and operations leads to translate telemetry and SQL-backed operational metrics into decisions that improved routing efficiency by 12–18% in high-demand service zones.
- Created KPI dashboards and monitoring tools using Google Sheets and Tableau, surfacing utilization, trip-length distributions, and idle-time ratios for investor updates and unit-economics modeling ahead of YC Demo Day.

#### Zultys – Telecommunications SaaS

San Francisco, CA

##### Machine Learning Integration Engineer

2023 – 2024

- Integrated OpenAI's Whisper model into the Zultys communications platform, delivering a 31% improvement in transcription accuracy over the previous ASR system.
- Developed and deployed Whisper inference services on AWS EC2 (Ubuntu), optimizing model size, VRAM, CPU, and I/O to balance accuracy, latency, and cloud cost.
- Built a full-stack transcription interface for voicemails and phone calls using HTTP, NGINX, HTML/CSS, and JavaScript, enabling seamless speech-to-text workflows for enterprise users.
- Collaborated with engineering and product stakeholders to define ASR requirements, validate performance benchmarks, and ensure smooth integration into production systems.

#### Finphil – Fintech Platform

Los Angeles, CA

##### Data Scientist

2022 - 2023

- Managed SQLite user-behavior data and ran A/B tests, improving User Satisfaction Scores by 15%.
- Performed PySpark-based ETL with AWS S3/Kinesis, ensuring accurate and reliable analytics data.
- Built content-based and collaborative filtering recommenders for 90 investment sectors (Python, TensorFlow).
- Created 60+ PowerBI dashboards to track KPIs and support product and sales insights.

### Education

#### Georgia Institute of Technology

Atlanta, GA (Remote)

Master of Science, MS – Computer Science (Artificial Intelligence, Machine Learning)

2026

Relevant coursework: Graduate Machine Learning, Deep Learning, Algorithmic Trading, Network Science, Natural Language Processing, Research under Professor Patricio Vela in Reinforcement Learning for Autonomous Robots

#### University of California, Los Angeles

Los Angeles, CA

Bachelor of Science, BS – Computer Science, Cognitive Science

2023

Relevant coursework: Data Structures and Algorithms, Python Software Engineering, Operating Systems, Computer Architecture, Database Systems, Machine Learning, Financial Accounting, Venture Capital, Financial Analysis

### Skills & Interests

**Technical:** Python, SQL, C++, Machine Learning, Data Engineering, PyTorch, TensorFlow, AWS, React, ETL/Data Pipelines, Microsoft Excel, PowerBI, Tableau, PySpark, LLM/Prompt Engineering

**Language:** *Native:* English, *Proficient:* Hebrew, Spanish, Portuguese, Russian *Basic:* Farsi, Italian

**Interests:** Markets, Golf, Ice Hockey, Solo World Travel