



# MAX MATKOVSKI

✉ [maxmatkovski@gmail.com](mailto:maxmatkovski@gmail.com)  [github.com/maxmatkovski](https://github.com/maxmatkovski)  [linkedin.com/in/maxmatkovski](https://linkedin.com/in/maxmatkovski)

## Education

### Georgia Institute of Technology

Master of Science (M.S.), Computer Science (Machine Learning)

2023 - 2025

### University of California, Los Angeles

Bachelor of Science (B.S.), Computer Science, Cognitive Science

2019 - 2023

## Skills

**General:** Full Stack Development, Object-Oriented Programming (OOP), Cloud Computing, Machine Learning, Statistical Modeling, Data Engineering, ETL, A/B Testing, Business Intelligence, Data Visualization, Sentiment Analysis, ASR Development, Test-Driven Development, Open Source Integration, Agile Methodology, Jira, Confluence

**Technologies:** Python 3, C++, R, SQL, MySQL, Excel, HTML/CSS, React Native, JavaScript, SkLearn, PyTorch, TensorFlow, PySpark, AWS, GCP, Pandas, NumPy, Matplotlib, Tableau, PowerBI, Git, Linux

**Languages:** **Native:** English – **Proficient:** Russian, Spanish, Portuguese – **Semi-Proficient:** Hebrew, Italian, Farsi Persian

**Personal Interests:** Markets, Language Learning, Judo, Brazilian Jiu-Jitsu, Chess, Mathematics, Golf, Solo World Travel

## Experience

### Machine Learning Engineer Intern

July 2024 – December 2024

Ontra Mobility (Y Combinator S24 Batch)

San Francisco Bay Area, CA — Remote

- First Machine Learning member of Ontra Mobility, AI for multi-modal transportation, part of Y Combinator S24 Batch
- Orchestrated data pipeline and deserialization of Protobuf location files into structured JSON format with Python
- Performed extensive data cleaning on real time vehicle position data to enable Machine Learning Algorithm development
- Contributed to custom ML algorithm to predict vehicle arrival times and classify trip ids based on a variety of features

### Machine Learning Integration Engineer

June 2023 – December 2023

Zulty

San Francisco Bay Area, CA — Remote (Contract)

- Integrated OpenAI's Whisper model to create an Automatic Speech Recognition (ASR) system for the company platform, improving transcription accuracy by 31 percent compared to previous solution
- Incorporated transcription model into a custom full-stack web application that transcribes voicemails and phone conversations (speech-to-text) using HTTP, NGINX, HTML, CSS, and JavaScript
- Engineered several instances of Whisper transcription model on AWS Elastic Cloud Compute (EC2) Linux Ubuntu
- Strategically selected system features such as VRAM, HD Space, CPU Cores, cloud platform, model size, optimizing for latency, transcription accuracy and financial cost

### Data Science Intern

June 2021 – September 2021

Finphil

Los Angeles, CA — Onsite

- Managed SQLite database of user behavior, drawing insights from data and improving average User Satisfaction Score by 15 percent by running several A/B Tests
- Performed data engineering ingestion using PySpark and contributed to ETL process using AWS S3 and AWS Kinesis
- Helped create customized recommendation systems using Content Filtering and Collaborative Filtering to recommend retail investors articles across 90 different investment sectors using Python 3 and TensorFlow
- Generated over 60 concrete data visualizations and tracked a variety of KPI's using PowerBI

### Data Engineer / Software Engineer Intern

March 2019 – June 2021

LeNgineer

Los Angeles, CA — Remote

- Developed a full-stack web based search engine for used cars using HTML, CSS, JavaScript, SQL, and React.js
- Built a web scraper and data pipeline with Selenium, AWS S3, Lambda, CloudWatch, Terraform, etc...
- Structured data was sent with api to Python for analysis and machine learning, using PySpark and Spark.ml
- Pitched tailored software solution for the US market of 16,000 second-hand car dealerships to various investors

### Alzheimer's Research Data Analyst Intern - Randal J. Kaufman Lab

June 2018 – March 2019

Sanford Burnham Prebys Medical Discovery Institute

La Jolla, CA — On-site

- Utilized ML techniques (Sklearn) to detect Alzheimer's disease, achieving an 83 percent detection accuracy rate
- Hypothesis tested data to investigate possible correlation of Protein ATF6a with Alzheimer's Disease
- Cleaned data to ensure uniformity and consistency across various samples, maintained data quality and recency