

# Baraq Lipshitz

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## EDUCATION

### ETH Zürich

MSc. Computer Science, Machine Intelligence Major  
Top 5 universities globally for Computer Science.

Zürich, Switzerland

*Expected June 2026*

### New York University

Bachelor of Science in Computer Science  
GPA: 3.99/4.0, Summa Cum Laude (top 5%).  
Graduated 1 year early. SAT 1560/1600 (top 0.5%).

New York, NY

*August 2021 – May 2024*

### Stanford University

AI and Entrepreneurship Summer Intensive Studies  
GPA: 4.0/4.0

Palo Alto, CA

*May 2020 – September 2020*

## SELECTED COURSEWORK

Probabilistic AI, Big Data, Machine Learning (PyTorch, Scikit-learn), Computer Vision (**first place project**) (OpenCV), Parallel Computing (CUDA, OpenMP, MPI), Algorithm Design & Analysis (**top 3 students out of 100**), Project Management

## EXPERIENCE

### Linvest21.ai

*Machine Learning Engineer, Investment Platform*

May 2024 – August 2024

*New York, NY*

- Building an AI economic data analyst in collaboration w/ former JP Morgan CTO. Took ownership, developed full stack.
- Achieved rapid promotion to leadership by swiftly delivering two successful AI products to production.

### NYU High Speed Research Network

*C++ Team Lead*

September 2023 – May 2024

*New York, NY*

- Led a 3-person team to develop and integrate a proprietary low-latency event streaming platform (Corelink) into NYU research projects.

### Forbes Media

*Technology Operations Intern*

June 2023 – August 2023

*New York, NY*

- Developed a high-visibility page for Forbes.com and deployed to Google Cloud Platform and Fastly, estimated to drive **\$2.6M revenue**.
- Migrated CI/CD pipeline to a Kubernetes native solution for APIs serving **~2 billion** requests per month. Modernized DevOps portal and found a critical security vulnerability.

### Payoneer

*API Software Engineer Intern*

June 2022 – September 2022

*New York, NY*

- Developed a new microservice and request cache (.NET, C#, MSSQL) for international payment notification API, speeding up dependent APIs by ~736%. APIs used by companies including Amazon, Google, and AirBnB.
- Analyzed services in production with Dynatrace/Coralogix and fixed bottlenecks. Load tested APIs with k6.

### Lightning Tech

*Founder*

September 2017 – August 2023

*Marin, CA*

- Grew a tech consulting business, earning **\$30,000+** profit serving 8 businesses and 200+ customers in high school.

## SELECTED PROJECTS

### Computer Vision 3D Maze Solver | *vSLAM, VLAD, SIFT, OpenCV*

- Won first place in NYU AI competition using Visual Place Recognition, monocular depth estimation, pathfinding.

### Song Classification ML Model | *XGBoost, PCA, Numpy, Scikit-learn, Plotly*

- Leveraged large Spotify datasets and machine learning to classify song genres, achieving a high AUC of **0.93**.

### Haskell-Based JavaScript-like Language Interpreter | *Haskell*

- Developed an imperative language interpreter in Haskell, using monads for AST parsing and state management.

### Research for NYU Martin Luther King, Jr. Program | *NumPy, Playwright, Python, Typescript*

- Took initiative to propose research on bias against diverse professors, awarded **\$7,500 grant**.
- Scraped large dataset of **772,542** evaluations and found statistical correlations to identify evidence of discrimination.

## SKILLS

**Programming:** C++, Python, React, JavaScript, TypeScript, SQL, Java

**Tools:** PyTorch, Scikit, Boost, Numpy, Google Cloud Platform, Langchain, OpenCV, Kubernetes, CUDA, MPI, OpenMP

**Languages:** English (Native, US Citizen), Hebrew (Native)