Baraq Lipshitz

U.S. Citizen • 📞 (628) 226-8196 • ✉ baraq@nyu.edu • 🔗 Linkedin • 🔗 Portfolio

EDUCATION

ETH Zürich — Zürich, Switzerland
MSc. Computer Science, Machine Intelligence Major — *Expected June 2026*
Top 5 universities globally for Computer Science.

New York University — New York, NY
Bachelor of Science in Computer Science — *August 2021 – May 2024*
GPA: 3.99/4.0, Summa Cum Laude (top 5%).
Graduated 1 year early. SAT 1560/1600.

Stanford University — Palo Alto, CA
AI and Entrepreneurship Summer Intensive Studies — *May 2020 – September 2020*
GPA: 4.0/4.0

SELECTED COURSEWORK

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 — May 2024 – Present
Machine Learning Engineer, Investment Platform — *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 — September 2023 – May 2024
C++ Team Lead — *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 — June 2023 – August 2023
Technology Operations Intern — *New York, NY*
- Developed a new page on Forbes.com in React and deployed to Google Cloud Platform and Fastly, driving **$2.6M revenue** (est.).
- 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 — June 2022 – September 2022
API Software Engineer Intern — *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 — September 2017 – August 2023
Founder — *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, Numpy, Google Cloud Platform, Langchain, OpenCV, Kubernetes, CUDA, MPI, OpenMP, FastAPI
Languages: English (Native, US Citizen), Hebrew (Native)