

Farhan Mashrur

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Education

- Cornell University, Bachelor of Arts** | GPA: 3.85/4.0 Expected May 2027
- **Majors:** Computer Science (BA), Economics (BA)
 - **Coursework:** Machine Learning | Systems Architecture | Object-Oriented Programming and Data Structures | Probability & Statistics | Linear Algebra | Functional Programming | Python | Discrete Mathematics | Risk & Insurance

Professional Experience

- Co-Founder / Full-Stack Engineer** | JobLink (Startup) | Ithaca, NY Feb 2025 – Present
- Built AI job-tracker with **React (TS)**, **Flask**, **PostgreSQL**; auto-parses Gmail to unify job data.
 - Created NLP pipeline (**LLM + spaCy + regex**) with **97.82% precision** for company, role, status extraction.
 - Led dev from wireframes to launch: **OAuth Gmail sync**, REST APIs, smart reminders; raised beta engagement **40%**.
- Software Engineering Intern** | BRAC Bkash Limited | Dhaka, Bangladesh Jun 2024 – Aug 2024
- Deployed a real-time office seating system across **5 floors** and **400+** employees with interactive multi-floor layouts.
 - Integrated **7 Spring Boot** microservices with **AWS DynamoDB** and **S3**, handling **100K+** seat queries daily.
 - Built an admin CMS supporting **30+** office managers and processing **20K+** configuration changes per month.
- Teaching Assistant** | Computer Science - CS 1340 | Cornell University Jan 2025 – Present
- Assist Professor Jon Kleinberg in a **750+** student course; run office hours and lead algorithm discussions.

Leadership Experience

- Cornell Data Strategy | Vice President of Technology** Aug 2024 – Present
- Led tech initiatives across multiple verticals; managed **3+ engineering teams** totaling **25+** developers.
 - Oversaw engineering execution for initiatives generating **\$1.6M+** in business value, optimizing resources by **23%**, and supporting solutions across **8 industries**.
- Project: Real Estate Agent Ranking Model | Data Analyst Lead** Jan 2025 – May 2025
- Built supervised model to rank high-potential agents for a **\$650M+** firm (**175+** agents).
 - Engineered MLS-based features (volume, growth, efficiency) for multi-factor scoring.
 - Improved recruitment by targeting **\$3M–\$5M** agents with strong performance.
- Project: TableTalk | Software Lead** Oct 2024 - Dec 2024
- Co-led team of **7** building full-stack app scraping **1K+** Google Maps reviews via **Selenium**.
 - Applied **Gaussian Mixture Models** with **PCA** on **Flask/SQL** backend to reveal review patterns.
 - Built **OpenAI**-based sentiment pipeline analyzing **50K+** reviews with **92%** F1 score.
- Cornell Fintech Club | Software Developer** Sept 2023 – Present
- Helped build Stock Sentiment Platform with search, portfolio, and real-time indicators for **500+** tickers.
 - Gathered user feedback from **40+** testers, refining MVP to improve engagement by **15%**.
 - Led UX design with **8** wireframes covering stock tickers, news feeds, and auth flows.

Projects

- Poultry Disease Detection (1st Place, Cornell Hackathon)** | TensorFlow, PyTorch Feb 2025
- Built AI that flags infections **3** days pre-onset from **12,000** spectrograms; reached **94%** accuracy.
 - Designed **5-layer CNN** targeting **20–22 kHz** vocal bands; inference in **25 ms** on Raspberry Pi 4.
 - Applied **MobileNetV3** to **8,000** fecal images, achieving **93%** precision.
- OCaml Trader** | OCaml, Lwt, Financial APIs Sept 2024 – Dec 2024
- Simulated **1000+** trades on live feeds spanning **500** equities; real-time P/L dashboard.
 - Leveraged **Lwt** to keep price-fetch latency under **50 ms** and transaction error rate **<0.1%**.
 - Implemented portfolio ops—buy/sell, performance, persistence—across **12** metrics; visual reports render in **200 ms**.

Technical Skills

- **Languages:** Java, Python, C/C++, Assembly, OCaml, JavaScript, TypeScript, HTML, CSS
- **Technologies:** React, NextJS, Vite.js, Node.js, Git, AWS, Microsoft Office Suite, Figma
- **Machine Learning:** TensorFlow, PyTorch, Scikit-learn, Pandas, Matplotlib, NumPy
- **Backend & Databases:** Flask, Spring Boot, MySQL, SQLite, Firebase, PostgreSQL