

Isaac B. Miller

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EDUCATION

MS in Computer Science | Northwestern University | GPA: 4.0 Expected June 2024

BS in Computer Science | Northwestern University | GPA: 3.8 Expected June 2024

Certificate in Engineering Management | Northwestern University Expected June 2024

Relevant coursework: Machine Learning, Deep Learning, Natural Language Processing, Scalable Software Architecture, Design Technology and Research, Design and Analysis of Algorithms, Data Structure and Algorithms, Statistics

PROFESSIONAL EXPERIENCE

Graduate Research Assistant September 2023 - Present

Northwestern MAGICS Lab | *Evanston, IL*

- Researching how to improve the performance of LLMs in production pipelines iteratively.

Backend Software Engineering Intern May 2023 - August 2023

Robinhood | *New York, NY*

- Created and implemented new infrastructure designed for users to customize categorical preferences for emails.
- Eliminated 240 MM excessive email send attempts, resulting in yearly savings of \$100,000 in API costs.
- Led weekly cross-functional team syncs for early identification and resolution of potential roadblocks.

Mobile Software Engineer Intern June 2022 - September 2022

Lyft | *San Francisco, CA*

- Planned and executed a POC to reduce fraud for Driver rentals through an AI facial recognition system.
- Delivered a module with 85% test coverage to stakeholders and wrote extensive documentation for implementation.
- Presented to cross-functional teams on an opportunity to improve codebase consistency.

iOS Development Intern April 2021 - August 2021

Drift Net Security | *Chicago, IL*

- Built an iOS app utilizing AWS Amplify to allow real-time threat reporting at schools and improved internal employee management systems.
- Created and productionized a multi-modal text, image, and video classifier and generated an automated threat report with additional data for student threat reporting.

EXTRA-CURRICULARS

Founder & President April 2023 - Present

Northwestern AI Club | *Evanston IL*

- Pioneered Northwestern's flagship AI club, fostering an environment conducive to ML and AI exploration.
- Curated learning avenues such as guest lectures and hackathons, merging theoretical knowledge with practical applications.
- Collaborated with academic and industry experts to keep members updated on current AI research and trends.
- Expanded club to 250+ members through effective leadership and sponsorships.

Co-Founder & Full Stack Developer March 2023 - October 2023

AI iOS App | *Remote*

- Created a WebSocket reverse proxy for OpenAI API to stream chat completions to client devices securely for 40 DAUs.
- Developed a SwiftUI mobile app with IAP to take advantage of influx of “Chat” related search queries on the App Store.

Lead App Developer & Tech and Analytics Executive Co-chair August 2019 - March 2023

Northwestern University Dance Marathon | *Evanston, IL*

- Promoted to committee head and expanded committee from 8 members to over 30 UI/UX designers and developers.
- Mentored new developers on standard practices, including code reviews and testing.
- Wrote an introductory course in order to teach new team members coding basics for production environments.

SKILLS & LANGUAGES

Technical Skills, Frameworks, and Tools: Python, Machine Learning, Deep Learning, LLMs, Node.js, AWS, Docker, Git, Swift/SwiftUI, JavaScript/TypeScript, Firebase, Tensorflow, HPC, Databases, Pandas, UI/UX, React, CI/CD

Languages: English (*native*)