





# SABRINA DO

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## EDUCATION

Massachusetts Institute of Technology (MIT)

2022 – 2026

B.S. in Computer Science and Engineering (6-3)

GPA 4.9 / 5.0

- **Classes:** Data Structures & Algorithms, Discrete Math, Machine Learning, Low-Level Programming in C and Assembly, Linear Algebra, Computer Language Engineering, Computer Systems Engineering
- **Skills:** Python (Django, Pandas, TensorFlow, Flask), JavaScript (ReactJS, Express, Svelte, Vue), SQL (Postgres), PHP, Java, HTML, CSS, C#, C++
- **Awards:** Best Web App with Qoom (HackTable Hackathon), 1<sup>st</sup> Place Winner (NASA Momentum Engineering Challenge), Google Computer Summer Science Institute Fellow, Google CS Research Mentorship Fellow

## EXPERIENCE

Instagram, *Software Engineer Intern*

May 2025 – Aug 2025

- Engineered and shipped **3 protections** to combat email compromise and hacked accounts, impacting **over 9 million users** using Python, PHP, and SQL, after thorough experimentation, analysis, and approval.
- Developed an LLM-powered bot used across five teams and **reduces on-call triage response rate**.

InKeep (YC W23), *Software Engineer Intern*

Jan 2025 – Feb 2025

- **Implemented a search system with >70% accuracy** using Retrieval-Augmented Generation (RAG).
- **Designed and optimized a vector database schema** to store and query embeddings, integrating metadata processing and intent recognition for improved search accuracy.

Meta, *Software Engineer Intern*

May 2024 – Aug 2024

- **Saved 20 engineering weeks per year** by developing a machine learning algorithm with 91% accuracy to automate the privacy audit of messaging data on the Messenger Privacy Team using Python, PHP, and SQL
- **Eliminated daily manual review of 100K assets** by creating an API that scans over the codebase daily
- Developed end-to-end data/ML pipelines and interactive interfaces to improve data processing efficiency
- Led/proposed project independently, utilized test-driven development, and wrote design documentation

Nasdaq, *Software Engineer Intern*

Jan 2024 – Feb 2024

- Built user-friendly full-stack web application from scratch with 100+ users using ReactJS, Flask, Postgres
- Engineered 10+ APIs and implemented a robust database schema to efficiently manage and query data
- **Optimized the identification of regulatory requirements by 70%** by building a user interface that allows companies to input financial data and calculate their regulatory obligations

NASA, *Software Engineer Intern*

May 2023 – Jul 2023

- Reduced scientific review time by 80% by automating daily aerospace data processing using TensorFlow
- Facilitated efficient analysis of organic samples from Mars using Python, NumPy, Pandas, and Matplotlib
- **Enhanced model performance by 11%, achieving 99% accuracy** in chemical identity prediction

## LEADERSHIP

MIT Women in Electrical Engineering and Computer Science, *President*

Sep 2022 – Current

- Led campus-wide diversity/professional initiatives for >150 members, boosting engagement by 90%

HackMIT, *Executive Board (DevOps & Logistics)*

Sep 2022 – Current

- Organized globally one of the largest hackathons and spearheaded raising over \$220K
- Developed mentor queue and application system used by 1000 hackers with Postgres, ReactJS, and Flask