MADELINE C. BUSSE

Email | Phone | LinkedIn | GitHub | Personal Website

ABOUT ME

Entry-level software engineer with a background in full-stack development, user-centered design, and data-driven strategy. Experienced on cross-functional teams in marketing tech, robotics, and academic research. Inclusive leader with a track record in startups, community leadership, and customer service. MIT Sloan deferred MBA admit with long-term goals in product innovation and ethical technology design.

EDUCATION

The University of Chicago | Chicago, IL   2021–2025
Bachelor of Arts, Double Major in Computer Science and Philosophy.
- GPA: 3.676/4.000 | National Merit Scholar.
- Relevant Coursework: Programming Languages, Data Science, Security & Privacy, Robotics, HCI.

MIT Sloan School of Management | Cambridge, MA   Expected 2030
Deferred MBA Admit, Early Admission Program.

AI Ethics Seminar at Duke University | Durham, NC   June 2024
- Sole undergraduate invited to participate in selective cohort of graduate students and technical professionals.
- Discussed philosophical and technical texts on AI with an emphasis on ethical system design and real-world impact.

EXPERIENCE

PMG, *Software Engineer* | Dallas, TX   June 2025–present
- Designed and implemented a Python-based data pipeline to harvest trends across TikTok and Pinterest APIs, visualized using Looker Studio dashboards to inform client marketing strategies.
- Built a full-stack brand health diagnostic system using React, automating optimization recommendations across product, marketing, and UX.

Zenblen, *Front-End Software Engineer Intern* | Chicago, IL   July 2024–September 2024
- Designed, prototyped, and implemented UX/UI elements for a robotic smoothie kiosk to address data-driven customer needs and develop brand identity across the kiosk, website, and social media.
- Spearheaded alignment of company goals to marketing efforts such as a loyalty program, collaborating with CEO and marketing team in an entrepreneurial, start-up environment.

Human Robot Interaction Lab, *Research Intern* | Chicago, IL   June 2023–August 2023
- Conducted a study on 150+ human participants, working with a team of two researchers to integrate a humanoid robot with ChatGPT and collect data on 20+ statistics per participant.
- Automated collection and statistical analysis of multimodal interaction data using Python, R, and cloud-based storage pipelines.

ADDITIONAL EXPERIENCE AND COMMUNITY INVOLVEMENT

Harper Café*, Barista*   March 2022–May 2025
- Handled customer interactions and ensured high-quality beverage preparation at a busy on-campus café.
- Served 50+ customers during rush hours and performed end-of-day cash balancing and equipment maintenance.

By the Hand Club for Kids, *Volunteer*   November 2023–May 2025
- Oversaw and tutored an afterschool classroom of 20+ elementary school students once a month.
- Fundraised $2,000 through personal outreach as a member of the 2024 Chicago Marathon Team.

LEADERSHIP

University Ministry of Christ Church Chicago, *Co-President*   May 2022–May 2025
- Managed $20,000 annual budget and led strategic planning for 50+ member campus ministry.
- Headed a team of six board members in organizing and hosting 20+ campuswide social service events annually.

Phoenix Outdoor Program, *Trip Leader*   September 2023–September 2024
- Trained and mentored 18+ students in outdoor leadership and safety, combining logistical planning with real-time problem solving in backcountry environments.

SKILLS AND CERTIFICATIONS

Technical*:* Python, Flutter/Dart, R, C, React, HTML/CSS, AWS (in progress), Git, SQL.
Certifications: Bloomberg Market Concepts (November 2022), AWS Developer Associate (expected 2025).