Saad Ahmad Sabri

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EDUCATION

Brooklyn College — New York, NY

Bachelor of Science in Computer Science, Minor in Data Science - 3.58/4.0 — *Aug. 2022 – May 2026*

Relevant Coursework *Data Structures, Analysis of Algorithms, Programming Paradigms in C++, Probability and Statistics, Data Tools and Algorithms, Intro to Advanced Mathematics*

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (PostgreSQL), JavaScript, HTML/CSS, R
Frameworks: React, Node.js, Flask, JUnit, Material-UI, FastAPI
Developer Tools: Git, Docker, TravisCI, Google Cloud, AWS, VS Code, IntelliJ, PyCharm
Libraries: pandas, NumPy, Matplotlib.

EXPERIENCE

Metropolitan Transit Authority (MTA) — June 2023 – Dec. 2023
Software Engineering Intern — *New York, NY*

- Collaborated on the migration from magnetic strip MetroCards to RFID-based OMNY cards, improving fare processing efficiency and commuter experience by 33%.
- Automated transit logging using Python, improving real-time data accuracy by 10% and reducing manual data entry efforts by over 66%, while processing an additional 1,000 data points per hour.
- Designed and implemented monitoring tools for the OMNY system, boosting system reliability by 12%, cutting troubleshooting times by 5%, and reducing system downtime by an average of 15 hours per month.
- Assisted IT teams in migrating fare collection systems to microservices, increasing scalability for millions of daily transactions.

Bed-Stuy Restoration Organization — June 2023 – Aug. 2023
Data Science Intern — *New York, NY*

- Built predictive models in Python to optimize resource allocation, improving service efficiency by 23%.
- Automated data workflows, reducing manual processing of social service applications by 50%.
- Developed data visualizations that enhanced community outreach, driving a 15.5% increase in engagement with underrepresented groups.

PROJECTS

Tutor AI Platform | *Python, Flask, RAG, Machine Learning, AWS* — Oct. 2024

- Created an AI-powered educational platform offering personalized tutoring sessions, boosting user engagement.
- Implemented machine learning algorithms to tailor content based on individual learning styles, improving learning outcomes.
- Deployed the platform to handle real-time interactions, scaling to support thousands of concurrent users.

Inventory Management System | *Next.js, Firebase, Material-UI, AI Algorithms* — Aug. 2024

- Developed a real-time inventory dashboard to track stock levels, improving inventory turnover by 19%.
- Implemented AI-based demand forecasting, reducing overstock by 14% and improving supply chain efficiency.
- Used Firebase for real-time data updates, enhancing decision-making and operational accuracy.

LEADERSHIP / EXTRACURRICULAR

Ibrahim Program Fellow — Dec. 2023 – Jan. 2024
Tech Leadership, AI/ML, Social Entrepreneurship — *Dubai, UAE; Cairo, Egypt; Washington, DC*

- Led tech-focused cross-cultural dialogues, strengthening communication skills and building partnerships with industry leaders.
- Collaborated with tech leaders, policy experts, and diplomats to address technology-driven challenges in the MENA/SWANA regions.
- Spearheaded a social entrepreneurship project utilizing AI/ML, solving real-world problems and showcasing leadership and technical skills.