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

City University of New York (CUNY)   Oct. 2024 – Present
Full Stack Engineering Intern   *New York, NY*

- Developed and maintained CUNY's web applications using React and Node.js, enhancing site performance by 11% and supporting over 2 Million users.
- Enhanced existing web applications to scale efficiently, contributing to a 15% increase in reliability and performance, supporting CUNY's growing user base of over 2 million students and staff.
- Collaborated with a team of 5 to redesign the student portal, improving user engagement by 30% and reducing page load times by 14%.
- Implemented RESTful APIs and integrated backend services, reducing data retrieval times by 15% and improving scalability.
- Automated deployment pipelines with Docker and Jenkins, decreasing deployment times and minimizing errors.

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

- Supported the OMNY system transition by developing backend services using Java and Python to streamline fare processing, reducing transaction times by 20% and improving processing efficiency by 33%.
- Collaborated with senior engineers to develop system monitoring tools for OMNY, enhancing system reliability by 12% and reducing downtime by over 15 hours per month.
- Participated in Agile team meetings, contributing to sprint planning and code reviews to align with MTA's software standards and best practices.

Bed-Stuy Restoration Organization   May 2023 – July. 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 applications by 50%.
- Developed data visualizations that enhanced community outreach, increasing engagement with underrepresented groups by 15.5%.

PROJECTS

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

- Developed an AI-powered educational platform (TUTOR) using Flask and Google Generative AI, enabling personalized responses based solely on uploaded notes or lecture videos, preventing AI hallucinations.
- Implemented LangChain for text processing and similarity search, increasing user retention by 20% through precise, context-driven responses.
- Streamlined PDF text extraction using PyPDF2, ensuring accurate data processing from user-uploaded documents to enhance the AI's response relevance.
- Implemented robust user authentication and session management with Flask to ensure secure access to uploaded content and personalized tutoring sessions.