

Saad Ahmad Sabri

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EDUCATION

Brooklyn College

Bachelor of Science in Computer Science, Minor in Data Science

New York, NY

Aug. 2022 – May 2026

EXPERIENCE

Software Engineering Intern

Sep. 2024 – Present

Brooklyn College

Brooklyn, NY

- Engineered a web application to manage student records and faculty data using React and Flask, cutting data processing time by 12%.
- Developed RESTful APIs to integrate campus systems, streamlining data access across departments.
- Revamped legacy systems using React and Node.js, boosting system performance by 7%.
- Automated testing and deployment pipelines with Jenkins and Docker, cutting manual testing efforts by 10%.

Software Engineering Intern

June 2023 – Dec. 2023

Metropolitan Transit Authority (MTA)

New York, NY

- Led 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 34% 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 22%, cutting troubleshooting times by 33.2%, and reducing system downtime by an average of 15 hours per month.
- Collaborated with IT teams to migrate fare collection systems to microservices, increasing scalability for millions of daily transactions.

Data Science Intern

June 2023 – Aug. 2023

Bed-Stuy Restoration Organization

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 29%.
- Developed data visualizations that enhanced community outreach, driving a 15.5% increase in engagement with underrepresented groups.

PROJECTS

Inventory Management System | Next.js, Firebase, Material-UI

2024

- Developed a real-time inventory dashboard to track stock levels, improving inventory turnover by 39%.
- 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.

Tutor AI Platform | Python, Flask, RAG, Machine Learning

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.

AI Trading Bot | AWS, TradingView Webhooks, Python

2023

- Engineered an automated trading bot on AWS, reducing manual trade execution by 100% with AI-driven algorithms.
- Integrated TradingView webhooks to trigger real-time buy/sell actions, increasing trade accuracy and efficiency.
- Optimized decision-making processes, reducing response times by 57% and improving overall trading performance.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (PostgreSQL, MySQL), JavaScript, HTML/CSS, R, Go, Kotlin

Frameworks: React, Node.js, Flask, Spring Boot, JUnit, Material-UI, FastAPI, Express.js, Django

Developer Tools: Git, Docker, TravisCI, Google Cloud, AWS, MySQL, Insomnia, Apache

Libraries: pandas, NumPy, Matplotlib, TensorFlow, PyTorch, scikit-learn, Keras, D3.js, Redis, Celery

Databases: PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, Cassandra

Machine Learning: TensorFlow, PyTorch, scikit-learn, Keras, OpenCV, MLflow, XGBoost, LightGBM