Mohammed A. Al-Muqsit

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EDUCATION

The City College of New York, City University of New York (CUNY)   New York, NY
Bachelor of Science in Computer Science   Expected May 2026
GPA: 3.5/4.0
Relevant Coursework:
Data Structures and Algorithms, Software Engineering, Software Design Lab, Internet Programming, Database Management Systems, Operating Systems, Computer Security, Image Processing, Computer Graphics, Data Science

SKILLS

Programming: Python, JavaScript, Java, C++ HTML, CSS, R
Frameworks: React.js, Node.js, Express.js, Next.js, Flask, FastAPI
Libraries: Pandas, NumPy, Scikit-learn, PyTorch, Matplotlib, Seaborn, Plotly
Developer Tools: Git, GitHub, Jupyter Notebooks, Google Cloud Platform, RESTful APIs, Tableau

RELEVANT EXPERIENCE

CUNY Tech Prep   New York, NY
Data Science Fellow   Jul 2025 – Present
- Selected for competitive data science fellowship across 11 CUNY senior colleges; completed weekly courses covering EDA, feature engineering, statistical modeling, and machine learning using Python, SQL, and Scikit-learn
- Participated in weekly courses and learned industry best practices for exploratory data analysis (EDA), feature engineering, data collection and processing, statistical modeling, data visualization, machine learning techniques, data science process, and big data

Google   New York, NY
G-SWEP Mentee   *Oct 2025 - Dec 2025*
- Completed 10-week intensive software engineering program with weekly 1:1 mentorship from Google Software Engineer, mastering data structures and algorithms for analyst and engineering roles
- Developed proficiency in Python through coding challenges and optimization exercises, focusing on writing clean, efficient code for automation and scripting applications

Metropolitan Transportation Authority (MTA)   New York, NY
Data Analyst Intern   Jun 2025 – Aug 2025
- Supported the Office of the CAO, working closely with two Senior Administrative Officers to analyze operational and fleet datasets for high-visibility, data-driven initiatives
- Identified 25%+ vehicle misuse and $100K–$2M in underutilized assets across 100,000+ rows of data, enabling cross-department optimization and improved asset allocation
- Created automated Excel and Power BI reporting workflows that reduced manual processing time by 30% and improved real-time decision visibility for senior leadership

PROJECTS

ForecastNYC | *Python, Jupyter Notebooks, Pandas, ARIMA, Prophet, Tableau, Streamlit, FRED API, PostgreSQL*   Fall 2025
- Analyzed the financial tradeoff between renting and buying in NYC with a $250,000 budget by collecting real-time housing, mortgage, and inflation data through multiple APIs
- Cleaned and merged 50K+ multi-source housing and mortgage records, engineered cost and equity features, and applied machine learning, time series forecasting, and scenario-based A/B testing to compare renting vs. buying, revealing 12–18% potential 10-year cost savings across select NYC boroughs

CD Blocker - BYTE Hacks Winner | *Python, OpenCV, Gemini, WebSocket, TypeScript*   Fall 2025
- Led a 4-person team to design and build CD Blocker, a real-time computer vision app that detects and masks credit card and ID information in live streams
- Architected the system by integrating OpenCV with Google Gemini Vision API, reducing API calls by 80% while balancing detection accuracy and performance

CUNY PulseBoard - CTP Hacks Winner | *Python, FastAPI, JavaScript, React.js, Google Cloud*   Summer 2025
- Integrated a centralized dashboard that consolidated 5+ CUNY student services into a single interface, reducing time to access key campus resources by an estimated 30%.
- Deployed the frontend on Netlify and leveraged Google Cloud Platform services, achieving 99% uptime and ensuring scalable, cross-device access for CUNY students

Affiliations

Association of Computing Machinery, Google Developer Groups