Khandakar Wahiduzzaman

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EDUCATION

Hunter College, *City University of New York*

Bachelor of Arts in Computer Science | Minor: Math & Economics   Expected: December 2025

Relevant Coursework: Software Analysis and Design (C++, Python), Discrete Math, Comp Theory & Arc (Assembly), Operating System, Network Security(Wireshark), Web Dev(JS, HTML, CSS), Big Data, Database Management, Advanced Capstone Project

SKILLS

Programming: Python, C, C++, JavaScript, Rust, Kotlin, Dart, Bash, HTML, CSS

Frameworks & Libraries: PyTorch, TensorFlow, Keras, Scikit-learn, Pandas, Numpy, OpenCV, MLflow

Technologies & Tools: Jupyter, Anaconda, Docker, Git, Linux, Spyder, Kubernetes, CI/CD, Airflow

Data Analysis & Visualization: Tableau, PowerBI, Excel, R, Matplotlib, Seaborn

Big Data & Database: Apache Spark, Apache Hadoop(HDFS, MapReduce, Pig, Hive), Kafka, Flink, SQL(PostgreSQL, MySQL), NoSQL(MongoDB, Cassandra, Neo4j), Snowflake, Databricks, AWS(S3, EC2, Lambda, Glue, Redshift, Sagemaker)

Certifications: Google CyberSecurity | Codepath Intermediate Technical Interview prep (TIP-102)

PROJECTS

FabricAI app
- Developed a mobile-first AI app to predict fabric type from images using a PyTorch EfficientNetB0 model
- Provide real-time predictions, trained on FABRIC dataset, optimized for mobile(40% faster, 95% prediction accuracy)
- Features include real-time camera detection, shopping & eco-friendly suggestions, and multilingual support

License Plate Recognition
- Developed a real-time license plate recognition system using YOLOv4 and TensorFlow OCR, achieving 98%+ accuracy
- Enhanced recognition by replacing Tesseract with a TensorFlow CRNN for better accuracy and distorted plates
- Optimized model for smart city deployment using TensorFlow Lite for fast & efficient inference on mobile deployment

AI Stock Predictor
- Built a full-stack AI-powered stock prediction web app using PyTorch & Scikit-learn on Yahoo Finance time-series data
- Engineered real-time data pipeline with Kafka(streaming data ingestion), feature extraction, news sentiment analysis(80% reduced data latency)
- Developed a dashboard with charts, newsfeed, AI-Chatbot, data processing & model updates orchestrated by Airflow

Multi-Model NoSQL Query Engine
- Optimized MongoDB queries for efficient document storage & retrieval, integrating Neo4j for graphing relationships
- Designed GUI & CLI interfaces to enhance accessibility & optimized queries(reduce retrieval time by 50%)

Drug-Gene-Disease Relationship Analysis with PySpark & Hadoop (Hetionet)
- Built a scalable data processing pipeline using PySpark, enabling efficient distributed computing
- Integrated the solution with Hadoop for large-scale data storage and processing
- Conducted performance tuning to optimize data transformations and reduce processing time by 30%

EXPERIENCE

Software Engineering Intern | *The Difference*

NYC — June 2025 – August 2025 (3 months)
- Contributed to a full-stack mobile fitness app (Flutter/Laravel, Node.js/Express.js, MySQL) that over 7000+ users use, collaborated in weekly stand-ups, code reviews, and followed Agile methodologies
- Implemented an AI-driven fraud detection feature to enhance app security and integrity
- Configured a local development environment for internal beta deployment to Apple TestFlight & Google Play Store

IT Assistant | *Dept. of ICIT*

Hunter College — August 2022 – present (2 year +)
- Managed tech & AV equipment for 30+ high-profile events (Mixing-Board, Polycam, Video Recording & Editing)
- Resolved network, device, & website issues and improved the system uptime (CUNYfirst, Brightspace, Blackboard)

Leadership

Treasurer | *Art for Healing Club of Hunter College*

Hunter College — August 2023 – February 2024 (6 months)
- Managed club finances by overseeing club budgets, tracking expenses, and ensuring compliance with college policies
- Coordinated events for 30+ attendees, handling admin tasks, funds approval, and paperwork for College Association