

Shabir Zahir

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EDUCATION

Queens College, City University of New York
Bachelor of Arts in Computer Science, Minor in Mathematics

May 2026
GPA: 3.75/4.0

EXPERIENCE

Columbia University Irving Medical Center

June 2025 – August 2025

Data Engineering Intern

- Built a distributed cloud pipeline using AWS HealthOmics & AWS Batch to generate structured reports from large-scale input data in parallel
- Created custom Docker images for bioinformatics tools & deployed them to AWS ECR enabling scalable & consistent deployment across cloud environments
- Engineered a wdl workflow to process genetic information & deliver data driven drug prescription recommendations for precision medicine

CUNY Tech Prep (CTP)

August 2025 – Current

Data Science Fellow

- Acquired proficiency in big data, EDA, feature engineering, data visualization, & machine learning
- Developed real-world projects using in-demand tools such as Pandas & PyTorch

Google Software Engineering Program (G-SWEP)

March 2024 – September 2024

Software Engineering Fellow

- Engaged in a 1:1 mentorship over the course of 20 weeks with 2 Google Software Engineers
- Refined technical problem-solving & interview skills, while gaining industry insights

The Build Fellowship

January 2025 – March 2025

Software Build Fellow

- Developed & trained machine learning models (Logistic Regression, ANN, CNN) for skin cancer classification using the HAM1000 dataset
- Explored ResNet-50 for advanced deep learning techniques to improve accuracy
- Built a structured end-to-end machine learning pipeline, analyzing performance metrics like accuracy, precision, recall, & F1-score
- Implemented Data preprocessing, visualization & evaluation using Numpy, Pandas & Matplotlib

PROJECTS

Queens College Schedule Creator

React, Python, Express.js, MySQL, Requests, Beautiful Soup

- Optimized course selection for students by designing a schedule generator
- Automated data collection on 3000+ professors via web scraping to ensure real time updates
- Established professor ranking system from 34,000 Queens College grade distributions & Rate My Professor reviews

Code Whisperer | HackKnight Best Software Tool

NextJS, Firebase, VSCode API, Fast API, Faster Whisper, OpenAI

- Boosted developer productivity & accessibility by developing a fully functional VS code extension enabling hands-free coding through the integration of voice to text
- Engineered backend services with Python & Fast API to process natural language commands enabling voice driven code modifications such as inserting, editing & deleting lines
- Integrated OpenAI & Faster Whisperer for high accuracy & real time voice transcription

TECHNICAL SKILLS

Languages: Python, JavaScript, C++, Java

Frameworks & Libraries: Flask, FastAPI, React, Node.js, Express.js

Developer Tools: AWS, Docker, MySQL, WDL

Libraries: pandas, NumPy, Matplotlib, Scikit-learn, Selenium, Beautiful Soup, Requests, YOLO