

Aitzaz Munir Shaikh

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EDUCATION

Cornell University, College of Arts and Sciences

Ithaca, New York

B.A. in Computer Science and Mathematical Physics (dual major)

Expected Graduation, Dec 2026

- o **Concentrations:** Machine Learning, Artificial Intelligence, Modelling
- o **Related Coursework:** Functional Programming, Data Structures & Algorithms, Object-Oriented Programming, Discrete Structures, Math Modelling, Multivariable Calculus, Linear Algebra, Electromagnetism, Mechanics

EXPERIENCE

Mage Data

New York, New York

Software Developer Intern

May 2024 - Present

- Assessed re-identification risks by evaluating k-anonymity, l-diversity, and t-closeness through Python libraries to determine data safety levels and ensure compliance with privacy standards
- Designed a Python script to give users risk metrics, quantitative improvements, and data-masking recommendations
- Applied machine learning algorithms to calculate optimal k-anonymity, balancing information loss and security gain

Headstarter AI

New York, New York

Software Engineering Fellow

July 2024 - Present

- Programmed 5+ AI apps & APIs using NextJS, OpenAI, Pinecone, StripeAPI with 98% accuracy as seen by multiple users
- Engineered projects from design to development using MVC infrastructure leading 4+ engineering fellows
- Coached by Amazon, Bloomberg, and Capital One engineers on Agile, CI/CD, Git, and microservice patterns

Systems Limited

Karachi, Pakistan

Software Engineering Intern

Dec 2023 - Jan 2024

- Facilitated ERP system migration from SAP ECC to SAP s/4 Hana, contributing to a seamless transition
- Constructed a screensaver for employees using JavaScript, HTML & CSS displaying the project's timeline and progress
- Filtered, sorted, and analyzed data using SQL and Excel tools such as gantt charts

PROJECTS

AI Customer Support | [Github](#)

New York, New York

Next.js, React, AWS, OpenAI, Pinecone

August 2024 - Present

- Collaborated with a 4-membered team to code an AI customer support system using LLMs and the AWS bedrock API
- Deployed RAG for chatbot responses on knowledge base and architected an LLM orchestration pattern with a router
- Incorporated user authentication to personalize chat experience and hosted web-app to AWS EC2 servers

Pantry Tracker | [Github](#)

New York, New York

Next.js, React, Firebase, OpenAI, Vercel

August 2024 - August 2024

- Programmed a CRUD application to track pantry items, with a firebase backend for data storage & user authentication
- Implemented image classification of items using GCP Vertex AI & AutoML
- Integrated a personalized recipe recommender based on pantry contents via OpenAI API

ChaiOrSleep | [Github](#)

New York, New York

SwiftUI, CoreML, Create ML

May 2024-June 2024

- Created an app providing users with personalized recommendations on chai consumption based on their sleep cycles
- Utilized regression analysis in Create ML to train a machine learning model with CoreML for prediction analytics
- Connected Core ML model to SwiftUI application enabling real-time predictions based on the users' input data

HONORS AND AWARDS

International Math Olympiad 2023 Training Camp Completion • Top 50 in National Math Talent Contest 2021 & 2022 • Silver Medalist in South-East Asian Mathematical Olympiad (SEAMO) 2021 • Merit in SEAMO 2022 Champions Division • Distinction in UWaterloo Euclid Contest 2022 • Bronze Honor in International Youth Math Contest 2020

SKILLS

Languages: Java, Python, JavaScript, SQL, Swift (iOS), HTML/CSS

Frameworks: Node.js, Next.js, React.js, Firebase, Material UI

Tools: Visual Studio, IntelliJ, Pulsar, Git, Bootstrap, Vercel, Excel, Powerpoint, Office