

MUHAMMAD OMAR ABBASI

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Education

Rutgers University

New Brunswick, NJ

Bachelors Degree in *Computer Science*

Aug 2025

Coursework: Data Structures, Algorithms, Databases, Computer Organization, Operating Systems, Software Engineering, Computer Networks, Functional Programming, Object-Oriented Programming, Test-Driven Development

Experience

Safina Society

New Brunswick, NJ

Software Engineer

Jan 2023 – Present

- Developed an automated Whisper to GPT subtitle pipeline in an internship-style engineering setup, building transcription, translation, timestamp handling, and multi-threaded batch processing tools for long-form podcast content.
- Built data-ingestion pipelines for podcast with **millions of monthly views** to capture metadata and chat/questions into **SQL**.
- Integrated **OpenAI/GPT** and **Claude APIs** to auto-classify questions into custom categories, reducing manual sorting by **99%**.
- Designed flexible **PostgreSQL** schema with category/label tables and JSONB attributes for fast retrieval and analytics.
- Implemented **CI/CD** for ingestion and labeling services using **GitHub Actions/Jenkins**, cutting deployment time by **30%**.

Home Depot

Old Bridge, NJ

Customer Support Specialist

Jun 2022 – Jan 2023

- Resolved technical issues using **Java-based** internal tools, improving customer satisfaction by **10%**.
- Co-developed a **CRM tool** that reduced ticket resolution time by **20%** through streamlined workflows.

HANAC

New York, NY

Data Entry Specialist

Jun 2018 – Aug 2018

- Automated reporting with **Excel formulas/macros**, streamlining weekly updates and improving data accuracy.
- Resolved data discrepancies through stakeholder communication, improving system reliability and database integrity.

Projects

NYC Alert - Full Stack System

300+ Paid Subscribers

Founder & Lead Developer

Dec 2021 – Present

- Built subscription server with **Discord API** and **Python** for real-time stock/price alerts serving **300+ paid subscribers**.
- Scraped data from **1,000+ e-commerce sites**, integrating with multiple REST APIs for comprehensive price tracking.
- Designed **React.js** UI and monitoring bots, improving response time by **25%** and system reliability.

Study Buddy - AI Multimedia Platform

New Brunswick, NJ

Full-Stack Developer

Feb 2025 – May 2025

- Spearheaded development of **React + Node.js** platform that converts lectures into interactive study cards.
- Integrated **speech-to-text** and **OpenAI APIs** for automated transcription achieving **90% accuracy**.
- Deployed scalable backend with **Express** and **Multer**, ensuring secure multimedia handling and processing.

RUBurgerApp - Android Application

New Brunswick, NJ

Mobile Developer

Mar 2025 – May 2025

- Developed feature-rich **Android app** in **Java/Kotlin** for custom burger ordering with dynamic pricing algorithms.
- Implemented interactive UI using **RecyclerView**, **Spinners**, and **Dialogs** with full order management system.
- Achieved **95% test coverage** using **JUnit** with Gradle Kotlin DSL for build automation.

Skills

Languages: Java, Python, C/C++, TypeScript, SQL, JavaScript, HTML, CSS

Frameworks/Tools: React.js, Node.js, REST/gRPC, GraphQL, WebSockets, AWS, GCP, Linux, Git, GitHub Actions, Jenkins, Docker, CI/CD, Express, PostgreSQL, MySQL, MongoDB, Redis, JUnit, pytest

Concepts: Machine Learning, AI Integration, Data Structures & Algorithms, Microservices, Data Pipelines, Test-Driven Development, Full-Stack Development, API Design