

Muhammad Omar Abbasi

Portfolio: MOA343.github.io | omarabbasi343@gmail.com | github.com/MOA343 | linkedin.com/in/ma9

Education

Rutgers University - New Brunswick, NJ

Bachelors Degree in Computer Science | Aug 2025

Technical Skills

Languages: Java, Python, C/C++, TypeScript, SQL

Frameworks & Tools: React.js, Node.js, REST/gRPC, GraphQL, WebSockets, AWS, GCP, Linux, Git, GitHub Actions, Jenkins, Docker, CI/CD pipelines

Databases: PostgreSQL, MySQL, MongoDB, Redis

Core CS: Data Structures & Algorithms, OOP, Functional Programming, TDD (JUnit, pytest)

Experience

Software Engineer - Safina Society | New Brunswick, NJ

Jan 2023 – Present

- Built a data-ingestion pipeline for a Podcast with millions of cumulative views to capture metadata and chat/questions into SQL.
- Used OpenAI/GPT and Claude APIs to auto-classify questions into custom categories, reducing manual sorting by ~99%.
- Designed a flexible PostgreSQL schema (category/label tables + JSONB attributes) for fast retrieval and analytics.
- Implemented CI/CD for ingestion and labeling services (GitHub Actions/Jenkins), cutting deployment time by ~30%.

Customer Support Specialist - Home Depot | Old Bridge, NJ

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%.

Data Entry Specialist - HANAC | New York, NY

Jun 2018 – Aug 2018

- Managed and updated databases, inventory, and mailing systems for accurate record-keeping.
 - Automated reporting with Excel formulas/macros, streamlining weekly updates.
 - Resolved data discrepancies through direct communication with stakeholders, improving system reliability.
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Projects

NYC Alert - Full Stack System | 300+ Paid Subscribers

Dec 2021 – Present

- Built a subscription server with Discord API + Python for real-time stock/price alerts.
- Scraped data from 1,000+ e-commerce sites, integrating with REST APIs.
- Designed React.js UI and monitoring bots, improving response time by 25%.

Study Buddy - Full Stack AI Multimedia App

Feb 2025 – May 2025

- Spearheaded & developed a React + Node.js platform that converts lectures into study cards.
- Integrated speech-to-text + OpenAI APIs for automated transcription with 90% accuracy.
- Deployed scalable backend with Express + Multer, ensuring secure multimedia handling.

Virtual Game - 2048 Game

Mar 2023 – Apr 2023

- Built Java-based game with Swing UI and optimized gameplay mechanics using advanced arrays.
- Implemented score tracking and authentication with backend integration.

RUBurgerApp - Java Android App (Kotlin)

Mar 2025 – May 2025

- Developed a fully-featured Android app in Java for custom burger orders with dynamic pricing, interactive UI (RecyclerView, Spinners, Dialogs), full order management (add/remove/clear/export), and unit testing using JUnit with Gradle Kotlin DSL.