Muhammad Omar Abbasi

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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 and scaled a podcast platform reaching millions of views, leveraging AWS and Google Cloud.
- Designed PostgreSQL NoSQL-style schemas for efficient media storage and retrieval.
- Automated AI-based classification of user questions, reducing manual sorting by 95%.
- Implemented CI/CD pipelines and modular design, 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.

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.