

MUHAMMAD OMAR ABBASI

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Education

Rutgers University <i>Bachelors Degree in Computer Science</i>	New Brunswick, NJ
Coursework: Data Structures, Algorithms, Databases, Computer Organization, Operating Systems, Software Engineering, Computer Networks, Functional Programming, Object-Oriented Programming, Test-Driven Development	<i>Aug 2025</i>

Experience

Safina Society <i>Software Engineer</i>	New Brunswick, NJ
– 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.	<i>Jan 2023 – Present</i>
– 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 <i>Customer Support Specialist</i>	Old Bridge, NJ
– Resolved technical issues using Java-based internal tools, improving customer satisfaction by 10% .	<i>Jun 2022 – Jan 2023</i>
– Co-developed a CRM tool that reduced ticket resolution time by 20% through streamlined workflows.	
HANAC <i>Data Entry Specialist</i>	New York, NY
– Automated reporting with Excel formulas/macros , streamlining weekly updates and improving data accuracy.	<i>Jun 2018 – Aug 2018</i>
– Resolved data discrepancies through stakeholder communication, improving system reliability and database integrity.	

Projects

NYC Alert - Full Stack System <i>Founder & Lead Developer</i>	300+ Paid Subscribers
– Built subscription server with Discord API and Python for real-time stock/price alerts serving 300+ paid subscribers .	<i>Dec 2021 – Present</i>
– 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 <i>Full-Stack Developer</i>	New Brunswick, NJ
– Spearheaded development of React + Node.js platform that converts lectures into interactive study cards.	<i>Feb 2025 – May 2025</i>
– 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 <i>Mobile Developer</i>	New Brunswick, NJ
– Developed feature-rich Android app in Java/Kotlin for custom burger ordering with dynamic pricing algorithms.	<i>Mar 2025 – May 2025</i>
– 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