

Nabhan Mazid

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EDUCATION

Rutgers University

Bachelor of Science, Computer Science

New Brunswick, NJ

Expected May 2026

Relevant Coursework:

Data Structures, Analytical Physics, Intro to Computer Science, Discrete Structures, Computer Architecture, Linear Algebra

EXPERIENCE

Crispro.ai

Software Engineer Intern / AI & Data Engineering Intern

Holmdel, NJ

June 2025 - Present

- Architected an end-to-end ETL pipeline to ingest 540,000+ clinical trials from the NCI ClinicalTrials.gov API, scaling data input by 2,500% and reducing update latency from months to <24 hours with nightly cron jobs..
- Built a database system with AstraDB vector search, generating Sentence-Transformer embeddings for complex trial eligibility criteria, improving semantic match accuracy for AI-powered patient-to-trial matching.
- Conducted full end-to-end testing of the data ingestion and query systems to ensure reliability and reproducibility in CRISPR R&D workflows.

Sub360

Software Engineering Intern

Remote

January 2024 - May 2024

- Developed and executed comprehensive automated test suites using JEST to ensure the reliability and performance of Sub360's construction workflow optimization platform, leading to 25% improvement in code coverage and 40% increase in bug detection.
- Designed and implemented modular React components for Sub360's internal tools, leading to a 40% reduction in load time and a 30% increase in user engagement across both web and mobile platforms.

Aras Hot Chicken LLC

Software Developer

Highland Park, NJ

December 2023 - Present

- Boosted user traction by 30% in 2 months by redesigning the business website frontend using **React**, **HTML**, and **CSS**, applying mobile-first UI/UX design principles for full responsiveness.
- Deployed an in-browser AI chatbot using Xenova's Transformers.js and a lightweight NLP model, enabling real-time Q&A for all restaurant-related customer inquiries.

ArrayIndex Inc.

Software Development Intern

Remote

December 2022 - February 2023

- Used an HTML5 template to design the front end of the company website increasing user traction by 30%.
- Configured MongoDB for persistent backend data storage and deployed site on Heroku to ensure seamless cloud accessibility.

PROJECTS

TajweedAI - Quranic Speech Recognition System

May 2025

Project Lead - "Iqra AI"

- Developed a specialized Arabic speech recognition system using fine-tuned Whisper models achieving ~90% transcription accuracy for Quranic verses, implementing real-time audio processing with WebSocket streaming for Quranic recitation analysis.
- Engineered a dual-model architecture (Surah Fatiha vs. Juz Amma) with dynamic model selection, benchmarking WER (Word Error Rate) and latency metrics to evaluate inference performance.
- Built a scalable Flask backend with advanced Arabic text normalization and matching algorithms, enabling precise word-level analysis and tajweed rule integration.

Rutgers Water Fountain Finder

Named "RUThirsty" - https://github.com/nmazid121/RU_Thirsty

November 2023

- Developed "RUThirsty" full-stack web application, enhancing Rutgers New Brunswick campus navigation with real-time water fountain locations reaching 100 monthly users.
- Engineered the app's frontend with **React** and styled interfaces with **CSS** for an optimal user experience resulting in a 35% increase in user engagement.
- Optimized backend efficiency by implementing ExpressJS and integrating a MongoDB database, resulting in a 50% reduction in data-retrieval time.

LEADERSHIP

Rutgers Muslim Student Association

Vice President

Spring 2025 - Present

- Organize weekly events averaging 50+ attendees, increasing overall participation by over 50%.
- Lead the Brothers Social team of 15+ members, overseeing planning and execution of social events and mentorship programs.

SKILLS

Programming Languages: Java, JavaScript, Python, HTML/CSS, C, SQL

Frameworks and Libraries: React, Node.js, Express, MongoDB, JEST, Flask, Whisper, HuggingFace Transformers

Developer Tools: Git, Docker, Firebase, AWS, Azure, VS Code