

EDUCATION

Bachelor of Engineering in Electrical Engineering City College of the City University of New York 2021

SKILLS

Frontend	React, Next.js, TypeScript, HTML, CSS
Backend	Node.js, Express, REST APIs, Firebase, PostgreSQL
Tools & Platforms	Git, GitHub, Stripe, OpenAI API
Foundations	API design, authentication, real-time data, system debugging, testing

PROJECTS

HalalOnlineStore.com — Multi-Vendor E-Commerce Platform

Full-Stack Engineer

Next.js, React, TypeScript, Firebase, Stripe

- Built a production-ready marketplace enabling customers to browse, order, and track halal products across multiple vendors.
- Designed and implemented role-based dashboards for customers, store owners, delivery drivers, and admins using Firebase Auth and Firestore security rules.
- Integrated Stripe payments and cash-on-delivery workflows to support flexible checkout options.
- Implemented real-time order tracking and delivery assignment using Firestore listeners and structured order states.
- Owned the full system lifecycle including architecture, development, testing, deployment, and operational troubleshooting.
- Designed and implemented secure role-based access control (Customer, Store Owner, Delivery, Admin) using Firebase Authentication, custom claims, and Firestore security rules to enforce least-privilege data access.

Ghostbuster — Frontend/Backend Route Validation Tool

Software Engineer (Senior Project)

Node.js, JavaScript, Babel AST, Husky

- Developed a static analysis tool to detect mismatches between frontend API calls and backend Express routes.
- Parsed frontend and backend source code into ASTs to extract HTTP methods and endpoint paths programmatically.
- Integrated validation into Git pre-commit hooks using Husky to prevent broken API contracts from entering the codebase.
- Designed a modular CLI architecture separating parsing, matching, and execution logic for maintainability.

LLM-Powered Natural Language SQL Dashboard

Full-Stack Engineer

React, Node.js, Express, PostgreSQL, OpenAI API

- Built a production-style dashboard enabling users to query a SQL database using natural language through a structured Model Context Protocol (MCP) design.
- Designed a context assembly layer that injects database schema, table relationships, and query constraints into the model prompt to ensure deterministic, safe outputs.
- Implemented server-side validation and guardrails to constrain LLM-generated SQL to read-only, schema-scoped queries before execution.
- Exposed controlled REST endpoints that mediate between the UI, the MCP context layer, and the database, preventing direct model-to-database access.
- Rendered query results in a responsive UI with tabular formatting and error feedback for malformed or ambiguous prompts.

EXPERIENCE

Integrated System Engineer — Actalent (Lockheed Martin)

Oct 2022 – Oct 2023

- Collaborated with hardware, software, and systems teams to validate complex mission-critical systems against requirements.
- Developed structured test plans, analyzed logs, and performed root-cause analysis to ensure system reliability.
- Supported test automation, tooling, and repeatable validation in regulated R&D environments.

Electrical Engineer — NAVSEA (NSWCPH)

Aug 2021 – Feb 2022

- Supported system integration and configuration testing of navigation and control systems.
- Verified system behavior against technical, safety, and performance specifications.
- Assisted in troubleshooting system-level issues across multiple subsystems.