HASSAN FARDOUS

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EDUCATION

The City College of New York - Bachelor of Science in Computer Science   Graduated: May 2025
GPA: 3.5
Relevant Coursework: Software Engineering, Software Design Lab, Database Systems, Data Structures, Algorithms, Computer Security, Operating Systems, Computer Networks, Programming in Python, Programming in C++, Programming Language Paradigms

WORK EXPERIENCE

Full-Stack Developer Intern - Cantor Fitzgerald (New York, NY)   June 3, 2024 – Aug 9, 2024
- Developed a full-stack web application for Mergers and Acquisitions, resulting in streamlined communication, reduced costs, and reduced onboarding time between acquiring divisions and acquired companies.
- Designed and implemented the 23-table relational database, in Lucidchart, through extensive meetings with managers and stakeholders to define specifications, contributing to a robust foundation with accurate data handling and system scalability.
- Engineered custom dashboards with React State Management and implemented JSON Web Token (JWT) authentication with role validation, enabling real-time data visualization and secure access controls for proprietary company data.
- Thoroughly documented the project and managed version control through Git and GitLab, facilitating seamless handover and future development.
- Built With: JavaScript, React, CSS, Node.js, Express.js, RESTful APIs, MSSQL, Lucidchart

Software Engineer Intern - The Difference App (Remote)   July 10, 2023 – Aug 18, 2023
- Spearheaded database infrastructure redesign initiative, collaborating with cross-functional teams to remodel schema in Lucidchart, ensuring updated structure met business requirements while optimizing data retrieval and management efficiency.
- Implemented new schema in MySQL Workbench, delivering faster query performance and streamlined database operations.

PROJECTS

HealthPrep
- Engineered an AI-powered doctor-visit preparation platform, using Anthropic Claude API, featuring intelligent question generation, medical terminology explanations, symptom tracking, medication management, post-visit summaries, PDF generation, and more, addressing healthcare inefficiencies where short consultations and 40-80% patient information loss create poor communication, misdiagnoses, and mishandled health treatment.
- Designed MySQL schema with complex health-data relationships, and implemented Docker containerization with CI/CD pipelines for automated testing and deployment, ensuring reliable and scalable data management for critical patient info.
- Built With: TypeScript, React, Next.js, Tailwind CSS, Node.js, NestJs, RESTful/Anthropic API, MySQL, CI/CD, Docker

ResuMatch
- Developed and deployed a full-stack AI-powered resume optimization web application on Railway that analyzes job seekers' resumes against job descriptions using Anthropic Claude API, providing detailed matching scores, strengths identification, and improvement recommendations with secure file processing, JWT authentication, and comprehensive match history tracking for enhanced job application success.
- Built With: JavaScript, React, Next.js, Bootstrap CSS, Node.js, Express.js, RESTful/Anthropic APIs, MongoDB

RoastDirect
- Developed and deployed a full-stack specialty coffee E-commerce web application on Railway featuring detailed product transparency, complex React State Management for multi-item cart operations, persistent cart-state, and real-time inventory validation, JWT authentication, billing and shipping info validation, and atomic MongoDB transactions for order processing, order cancellation with automatic inventory restoration, and comprehensive user order history tracking.
- Built With: TypeScript, React, Next.js, Tailwind CSS, Flask, RESTful APIs, MongoDB

LifeBalance
- Collaborated through GitHub and Lucidchart to build and deploy a service-booking platform on AWS featuring dynamic provider registration with class management dashboards, advanced filtering and search capabilities for customer discovery, integrated payment processing, and real-time booking availability.
- Built With: JavaScript, React, CSS, Node.js, Express.js, RESTful APIs, MySQL, Lucidchart

SKILLS

Programming Languages: JavaScript, TypeScript, Java, Python, C++, C#, SQL
Frameworks, Libraries, and Tools: React, Next.js, HTML, CSS, Node.js, Express.js, NestJS, Flask, Spring Boot, MySQL, Microsoft SQL Server (MSSQL), MongoDB, Git/GitHub/GitLab, Docker, CI/CD, AWS, Railway, LLMs, Lucidchart, Trello, Unix
Technical Domains: Full-Stack Software Engineering/Development, Web/Mobile App Development, AI-Integrations, Agile Development, Object-Oriented Programming, Project Management