# Husnain I. Khaliq

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## EDUCATION

**Brooklyn College, City University of New York**                                                           **Expected Sep 2025**

*Bachelor of Science in Computer Science*

**Relevant Coursework:** Data Structures, Introduction to Modern Programming Techniques (Java), Database Systems, Implementation of Large-Scale Web Applications, Programming Paradigms in C++, Linux Essentials.

## TECHNICAL SKILLS

**Programming Languages:** Java, C++, Python, JavaScript, TypeScript, HTML5, CSS, SQL .

**Libraries & Tools:** React, Redux, Express, Nivo, Material UI, Tailwind CSS, Node.js, Passport.js, OAuth2.0, Bcrypt, Mocha, Jest, MySQL, Sequelize, PostgreSQL, Firebase, MongoDB..

**Technologies:** Restful APIs, Git/GitHub, Figma, Postman, Unix command line.

## PROFESSIONAL EXPERIENCE

**Software Engineer Fellow | Headstarter AI**                                                           **Jul 2024 - Sep 2024**

- Selected from over 40,000 global applicants based on proficiency in modern web development, AI integration, and leadership potential for the Headstarter AI Fellowship.
- Developed 5+ AI-powered applications using next.js, OpenAI API, Pinecone, and integrated Clerk and StripeAPI, optimizing algorithms to achieve 98% accuracy with 1000+ users.
- Led the design, development, and deployment of AI-based applications, managing a team of 4+ engineers using MVC design patterns and agile methodologies.
- Mentored by engineers from Amazon, Bloomberg, and CapitalOne on agile methodologies, CI/CD pipelines, and microservice patterns, applying these skills to optimize project workflows.

**Sales Associate | Staples**                                                           **June 2023 - Present**

- Serve as the primary cashier, efficiently handling customer transactions, and providing exceptional customer service.
- Guide customers on the sales floor with product selection, offering expert advice to meet their needs.
- Spearheaded restocking and organization of merchandise, optimizing product layout, resulting in a 15% increase in sales due to improved product accessibility.
- Managed 6,000+ Amazon package returns weekly, leveraging efficient tracking and workflow systems to ensure a 99% accuracy rate and a streamlined process for customer returns.

## PROJECTS

**PromptWise**                                                           Deployed-App | Backend-Repo | Frontend-Repo

- Developed and launched PromptWise, an AI-powered flashcard generation platform using Next.js and the OpenAI API, enabling users to create customizable flashcards to improve their learning efficiency.
- Integrated payment system with Stripe to offer a premium subscription model, unlocking advanced features like quiz modes and flashcard customization for enhanced user experience
- Improved application responsiveness by optimizing the UI/UX for mobile and desktop platforms, resulting in a 30% increase in user engagement and retention

**FitNology**                                                           Deployed-App | Backend-Repo | Frontend-Repo

- Developed Fitnology, a fitness tracking app that includes personalized workout and nutrition plans, along with a calorie tracker to help users monitor their daily intake and stay on track with their fitness goals
- Integrated real-time progress tracking using Node.js and Firebase, providing users with interactive charts to visualize their fitness journey and track their daily activities.
- Implemented an AI fitness coach, offering tailored workout suggestions and guidance based on user data, significantly enhancing user engagement and providing a personalized fitness experience.

**Sales Analysis Dashboard**

- Developed a comprehensive  sales performance analysis dashboard using MySQL for data extraction and Power BI for dynamic visualizations.
- Designed and optimized SQL queries to aggregate key metrics, including total sales, regional profits, and monthly sales trends.
- Built interactive visualizations, such as bar charts, line graphs, and pie charts, to effectively communicate actionable insights and trends for strategic decision-making.