

# Afeef Shaikh

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## EDUCATION

### Toronto Metropolitan University

*Business Technology Management | Computer Science*

Toronto, ON

*Expected Graduation, Sept 2025*

## EXPERIENCE

### Software Engineering Fellow

June 2024 – Sept 2024

*Headstarter AI*

*Remote*

- Developed and deployed 5 AI projects utilizing technologies such as Next.js, RAG LangChain, Pinecone, AWS, OpenAI, Python and Firebase.
- Built and integrated a custom RAG pipeline for a chatbot, leveraging OpenAI and Pinecone to deliver responses based on a company's knowledge base
- Participated in hackathons and weekly sessions with engineers from Google, Y Combinator, Stanford, Amazon, and various venture-backed startups.

### Digital Marketing Intern

May 2023 – Aug 2023

*Akaal Equipments*

*Brampton, ON*

- Spearheaded Facebook advertising campaigns, boosting construction equipment sales by 44% within the first month and consistently driving month-over-month growth.
- Contributed to a substantial revenue increase, from \$60k to \$90k in the second month and a notable surge to \$130k in the third month, showcasing a 50% and 44% increase, respectively.
- Produced compelling graphics and videos in Canva, leading to a 25% boost in engagement and rise in traffic.

## PROJECTS

### Pantry Mate | *Next.js, Material UI, Firebase, DALL-E, Vercel*

June 2024 – June 2024

- Developed a web-based pantry management application using Next.js, Material UI, and Firebase to help users track inventory, categorize items, and manage supplies efficiently.
- Implemented user authentication, search functionality, and category-based filtering for easy item management.
- Delivered a modern, responsive UI and deployed the app successfully on Vercel.

### HealthWise - AI Chatbot for Clinics | *Node.js, Google Calendar API, AWS EC2, NLP*

June 2024 – July 2024

- Developed a multilingual AI bot that automates health inquiries, symptom analysis, and clinic policy explanations, improving patient support by 80% using OpenAI.
- Provided real-time doctor recommendations and detailed profiles based on user symptoms, enhancing the patient experience and streamlining clinic operations.
- Leveraged Next.js, TypeScript, and AWS EC2 for deployment, with information stored and retrieved via a vector database to ensure scalability and efficient data access.

### Quizzzy - AI Flashcard Generator | *Node.js, Stripe API, OpenAI, Firebase, React*

July 2024 – July 2024

- Developed an AI-powered flashcard generator that dynamically creates personalized study materials for students using OpenAI API, enhancing learning retention and efficiency.
- Integrated Stripe for seamless payments and created interactive quizzes to further engage users in their study process.
- Achieved a 20% improvement in student retention and study session engagement.

### BuddyBot | *Node.js, Whisper (STT), LLaMA, Tortoise (TTS), AWS Lambda*

Aug 2024 – Sept 2024

- Developed an AI-powered chatbot integrated into interactive plush toys, allowing real-time educational conversations using speech-to-text (Whisper) and text-to-speech (Tortoise) systems.
- Delivered personalized educational content and reinforced good manners through conversational AI
- Designed a local database storage system to allow BuddyBot to remember and learn from past conversations, personalizing the user experience while ensuring data privacy and safety.

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, HTML/CSS, SQL (MongoDB), JavaScript, TypeScript, Next.js, R

**Frameworks:** React, Node.js, Next.js, JUnit, WordPress, Material-UI

**Developer Tools:** Git/Github, Docker, AWS (EC2, Lambda), VS Code, Vercel, Firebase, PyCharm, IntelliJ, Eclipse

**Libraries:** pandas, NumPy, Matplotlib, scikit