

RAWAN KARROUM

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EDUCATION

Toronto Metropolitan University

2020 – 2024

Bachelor of Computer Engineering (B.Eng.): Software Engineering (with distinction)

- Dean's List 2020-2021, 2022-2023 & 2023-2024 with a CGPA: 3.72 / 4.33
- Relevant Coursework: Object Oriented Analysis Design, Software Design Architecture, Software Project Management, Advanced Algorithms, Database Systems, Machine Learning and Intelligent Systems, Software Testing and Quality Assurance

EXPERIENCE

Software Engineering Fellow

Jul. 2024 – Sept. 2024

Headstarter AI

- Managed and collaborated with over 7 diverse engineering teams to deliver more than 5 AI applications, enhancing team coordination, interpersonal collaboration, and strategic planning abilities
- Chosen by the Headstarter founders to coach engineer teammates, offering technical assistance that led to the successful delivery of 5+ projects, from design to deployment, improving team productivity and effectiveness

Hackathon Winner – Spend Ruby Financial Platform

Aug. 2024

Headstarter AI

- Used React.js, Next.js, and PostgreSQL to build the frontend and database for an AI-powered system that processes consumer complaints in voice, text, image, and video formats, leading the team to win first place at a 24-hour hackathon for enhanced user interaction and data management
- Implemented Whisper and WebKit Speech Recognition for voice transcription, OpenAI for text and image classification, and Google Cloud Video Intelligence for video analysis, resulting in a 70% increase in the speed of receiving and processing complaints into the database
- Used Pinecone to categorize complaints accurately from an existing dataset, improving the accuracy of complaint classification

Junior Developer Intern

May 2023 – Aug. 2023

Carlton One Engagement

- Used JavaScript and PHP to transform UI/UX designs into user-friendly web interfaces, adding 15+ new features
- Linked front-end elements of websites with RESTful APIs for improved functionality and user experience
- Utilized DataDog to monitor and troubleshoot, reducing errors by 20%, and increasing system efficiency by 15%
- Used Docker for efficient organization and deployment of web applications

PROJECTS

ResumeReady | *React.js, MaterialUI, Next.js, MongoDB, OpenAI, Langchain, Vercel*

Aug. 2024

- Developed a web platform, with another software engineer, using React.js and Next.js to analyze resumes and job descriptions, providing tailored resume feedback, cover letters, and interview questions for enhanced job application success, reducing the time to apply for jobs by 40%
- Integrated OpenAI and LangChain to generate personalized cover letters, and behavioral and technical interview questions related to the specific job description, helping users better prepare for interviews
- Implemented MongoDB to store user-generated content and feedback, ensuring scalability and efficient data management for thousands of users

AI Flashcards | *React.js, MaterialUI, Next.js, Firebase, OpenAI, Vercel*

Aug. 2024

- Developed a flashcard SaaS platform using Next.js, Firebase, and OpenAI, to allow users to create or generate flashcards with AI, enhancing study efficiency and customization
- Integrated Stripe for payment processing and subscription management, providing premium features like unlimited flashcards and access to public sets
- Implemented user authentication with Clerk, ensuring secure and seamless access for users across multiple devices

TECHNICAL SKILLS

Languages: JavaScript, SQL, TypeScript, Java, HTML, CSS, Python, PHP

Frameworks: React.js, Next.js, Express, LangChain, MaterialUI

Technologies: Git, PostgreSQL, MongoDB, Jira, Google Cloud, Selenium, Postman, Docker, Kubernetes, Pinecone, Vercel, OpenAI, StripeAPI, Puppeteer, Cheerio