Raihan Carder

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Education

Honours Bachelor of Science (Co-op)   2024-Present

University of Toronto Scarborough, Toronto, ON.
Computer Science (Specialization in Software Engineering)

Projects

Music4You | Full Stack Music Review Platform

Next.js, TypeScript, PostgreSQL, Supabase
- Built a full-stack web application with user authentication, protected routes, and persistent data storage using Next.js and TypeScript.
- Designed relational database schemas in PostgreSQL to store users, albums, ratings, and reviews, ensuring data integrity and scalability.
- Developed reusable frontend and server-side components in TypeScript to support maintainable, scalable feature development.
- Analyzed requirements and documented application behavior to support iterative and maintainable development.

SmartAir | Android Health Management App

Android SDK, Java, Firebase Firestore, Firebase Auth
- Developed a multi-role asthma management application in Java with an agile team of 5, enabling patients, parents, and providers to track symptoms, medications, and health trends.
- Implemented the Daily Check-In feature, capturing structured symptom and trigger data and persisting entries to Firebase Firestore with timestamped models.
- Designed and built a History Browser using Firestore queries to filter multi-month health logs and support PDF and CSV export for providers.
- Collaborated using Git branching workflows with clear task ownership across UI development, Firebase integration, safety logic, and report generation.

Ez Form | AI Voice-Enabled PDF Form Filler (HackHive 2026)

FastAPI, React, TypeScript, Python, Google Gemini API
- Built a full-stack, voice-driven web application that enables users to complete PDF forms through natural language interaction, improving accessibility and reducing manual data entry.
- Developed a FastAPI backend to extract, track, and update PDF form fields using PyPDF2, supporting session-based, multi-step form completion.
- Integrated the Google Gemini API to support conversational form filling by interpreting spoken responses and mapping natural language input to structured PDF fields.
- Developed a React + TypeScript frontend using the Web Speech API for real-time speech recognition and synthesis, enabling hands-free form interaction.

Technical Skills

- **Languages:** Java, TypeScript, Python, JavaScript (ES6), SQL, HTML/CSS, C, C#
- **Frameworks/Libraries:** React.js, Next.js, Node.js, FastAPI, Android SDK, Monogame
- **Databases:** PostgreSQL, Firebase Firestore, Supabase
- **Tools and Testing:** Git, GitHub, Visual Studio, VS Code, Unit Testing, Debugging, JUnit, Jest, Jira
- **Technical Interests:** Full-stack development, AI and machine learning, Software design
- **Concepts:** Object-Oriented Programming, Data Structures & Algorithms, RESTful APIs, Agile Development, Clean & Testable Code, Software Development Life Cycle (SDLC)
- **Other:** Bilingual (French & English), Strong written and verbal communication, Eager to learn