Rahul Rakesh

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SUMMARY

Software Engineer specializing in full-stack development with React, Java, Node.js, and Python (Django). Demonstrated success in building and deploying robust applications from concept to production, including a real-time multiplayer game and an AI-integrated calendar app used by 30+ students. Eager to contribute expertise in backend systems, modern frontend frameworks, and end-to-end project delivery to an innovative software team.

Technical Skills
- **Languages**: Java, Python, JavaScript, C, SQL, HTML/CSS
- **Frameworks**/Tools: React, Node.js/Express, Django, SQLite, PostgreSQL, MongoDB, Git, Docker
- **Other**: Agile/Scrum, Data Structures & Algorithms, Testing & Debugging.
- **Soft Skills:** Analytical thinking, problem-solving, adaptability, collaboration, creativity, leadership and teamwork

EDUCATION

University of Western Ontario - B.S.C Computer Science(CO-OP) GPA: 3.3/4   *2023-2027(Expected)*

Relevant Courses: Data Structures and Algorithms(CS2210), Databases 1(CS3319), Software Engineering (2212), Intro to Machine learning(DS3000), Software Project Management (CS3377)

PROJECTS

WebWall – Cross-Browser Productivity Extension
- Developed a **Manifest V3** extension for Chrome, Edge, and Firefox in **JavaScript**, blocking distractions like Instagram Reels and YouTube Shorts.
- Improved user focus with customizable schedules and focus sessions using **Chrome Storage API**s and service workers.
- Built **responsive UI** with **HTML/CSS/JS** and ensured cross-browser sync + local-first storage for privacy.

Fake Out – Real-Time Multiplayer Game
- Developed Fake Out, a real-time multiplayer party game, using **React**, **TypeScript**, **Node.js**, and **Socket.IO** for a seamless social deduction experience.
- Engineered a dynamic game lobby with customizable settings, **live voting**, and **score tracking**, all synchronized
- Containerized the full-stack application with **Docker** and deployed it to **Fly.io**

VitaLink(TerraHacks 2025)– AI-Powered Healthcare Network
- Created a healthcare platform using **React Native** frontend and **Django** REST backend, reducing ER wait times with live hospital data.
- Integrated Gemini AI for triage, assigning urgency scores and routing patients via **PostgreSQL/MongoDB.**
- Built emergency voice assistant with speech recognition, **TTS, and Twilio**, enabling hands-free EMS dispatch.

Calendarly – Full Stack Calendar App
- Built a React calendar platform with **Node.js/Express** backend and **SQLite** database, enabling AI-powered event extraction from PDFs/text to track deadlines.
- Streamlined event entry with a chat-style **React** interface and daily usage limits, improving user productivity.
- **Deployed** production-ready system on **Vercel** (frontend) and **Render** (backend), tested with 30+ student users.

WORK / LEADERSHIP EXPERIENCE

Camp Leader   Mississauga, Ontario/
Merciful Redeemer Parish   *July 2023– August 2023*

- **Organized** and **led** educational workshops on conservation and sustainable living.
- Ensured **smooth operations** by supervising staff, maintaining facilities, and resolving behavioral issues effectively.
- Fostered a supportive environment by **mentoring** team members and **encouraging collaboratio**n

Ultimate Frisbee Captian / Coach   Mississauga, Ontario/
                                                                                                   June 2022– August 2025

- **Led** a competitive team by organizing practices, **developing** strategies, and coordinating with players and winning 2 trophies
- Ensured **player safety** and **adherence** to fair play rules during all practices and games.
- **Coached** team members on fundamental skills, advanced techniques, and in-game tactics for overall better performance.