Akul Sareen

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EDUCATION

York University   **Toronto, Ontario**
BSc. Computer Science   *Graduation Date: Jun 2025*

WORK EXPERIENCE

Reefers Technologies   **Toronto, Ontario**
Engineering Intern   *Jul 2024 - Nov 2024*

- Conducted in-depth market and technical research that identified key industry trends, leading to the development of web solutions that increased user engagement by 40% across digital platforms.
- Created innovative UI/UX designs for 10+ digital products, resulting in a 30% reduction in user drop-off rates and enhancing overall user satisfaction scores by 25%.
- Developed and implemented accessible web solutions that improved compliance with WCAG standards, ensuring a seamless experience for over 5,000 users with disabilities while aligning with the company's commitment to inclusivity.

Infiniguard | York University   **Toronto, Ontario**
Fullstack Developer   *Start Date - Finish Date*

- Spearheaded the development of a comprehensive resources website for EmpowerU, utilizing React TypeScript to enhance user experience, resulting in a 40% increase in engagement among youth entrepreneurs within the first quarter post-launch.
- Collaborated with a cross-functional team of 15 students from various disciplines to integrate sustainable business practices into the website, successfully delivering over 20 unique resources and tools aimed at fostering entrepreneurial skills among youth, achieving an impressive user satisfaction rate of 90%.
- Engineered and optimized backend services that improved website load times by 50%, ensuring seamless access to essential resources for over 1,000 young users during the pilot phase, significantly enhancing overall operational efficiency.

PROJECT EXPERIENCE

E-Commerce System Design | York University   **Toronto, Ontario**
Books E-store   *May 2024 - Aug 2024*

- Spearheaded the implementation of 15 design patterns within a MERN stack e-commerce bookstore application, enhancing code maintainability and reducing bug reports by 40%, which improved overall user satisfaction scores by 25%.
- Engineered optimized user interfaces for a diverse range of product pages, resulting in a 30% increase in average session duration.
- Orchestrated the integration of RESTful APIs, streamlining data management processes that reduced server response time by 50%.

Capstone Project | York University   **Toronto, Ontario**
Ver-IT GraphQL API   *Sep 2024 - Present*

- Spearheaded the development of a GraphQL-based API for an innovative knowledge mobilization platform, facilitating the sharing of research findings among over 1,500 scholars and researchers, which has increased user engagement by 40% within the first six months.
- Engineered a robust server-side architecture using Node.js and Apollo, achieving an average response time of under 200 milliseconds for API requests and supporting up to 5,000 concurrent users without performance degradation.

- Orchestrated the design and implementation of a user-friendly interface that has improved accessibility scores by 30%, enhancing overall user satisfaction as evidenced by feedback from over 300 beta testers.

LEADERSHIP EXPERIENCE

Excel Lassode | York University

Teaching Assistant *Sep 2023 - Sep 2024*

- Facilitated comprehension of complex concepts in Object Oriented Programming for over 40 students, achieving a 90% course pass rate compared to a department average of 75%, and enhancing overall student engagement by 40%.
- Developed customized learning materials and interactive workshops for Software Tools and Data Structures courses, resulting in a 30% improvement in student project scores and increasing attendance rates by 50% across multiple sessions.
- Mentored students through the fundamentals of Logic for Computer Science, leading to an average increase of two letter grades in assessment performance, while also contributing to the creation of supplementary online resources that served over 100 users.

SKILLS & INTERESTS

Skills: Microsoft Office (Excel, Word, PowerPoint), Git, MERN Stack, iOS App Development, GraphQL, AWS, JIRA

- **Cryptography:** AES, ECC, RSA, Digital Signatures and Certificates

Interests:
- **Blockchain:** Enthusiastic about decentralized technologies and their applications.
- **Video Gaming:** Passionate gamer with an interest in game development.