

Niraj Malokar

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EDUCATION

Bachelor of Computer Science, Artificial Intelligence and Machine Learning Stream **September 2023-Present**

Carleton University, Ottawa, ON

- Second year standing, **11.33/12 (A)**
- Awards and scholarships: **International excellence award, academic scholarship**
- **2022-2023 Deans' Honor List**
- Expected Graduation Date: April 2027

AVAILABILITY

Available for **4-8 months, beginning May 2024**

RELEVANT SKILLS, EXPERIENCES AND ACCOMPLISHMENTS

- **Technical Skills**
 - **Full Stack Web Development:** Proficient in utilizing **NextJS, Tailwind CSS, and MongoDB** to develop dynamic and scalable web applications. Experienced in integrating these technologies for comprehensive full stack solutions.
 - **ASP.NET and C# Development:** Hands-on experience in building full stack CRUD web applications using ASP.NET and C#.
 - **ReactJS and Typescript:** Skilled in developing web applications with ReactJS and TypeScript, with a focus on leveraging **Firebase** for backend services. Able to construct robust social media applications by effectively integrating these technologies.
 - **ExpressJS and JEST:** Proficient in using ExpressJS for back-end development. Able to integrate database technologies like MongoDB, middleware like **passport for authentication**, and using **JEST for unit testing**.
 - **Front-end CSS Frameworks:** Familiar with front-end designing technologies like **Bootstrap, Tailwind CSS, and SASS**
 - **Programming Principles:** Demonstrated proficiency in fundamental programming principles including **Object-Oriented Programming (OOP), data structures, algorithms, and memory management** through academic projects. This foundation ensures adaptability to diverse coding environments.
 - **Programming Languages:** Proficient in a variety of programming languages including C, C#, C++, Python, Java, SQL, JavaScript, and CSS.
 - **Tools and Version Control:** Learned working with Visual Studio, Linux kernel and Git for version control, collaboration, and project management, resulting in streamlined development processes and improved teamwork.
- **Soft Skills**
 - **Interpersonal Communication:** Excelled in both one-on-one and group settings with students, faculty, and peers, fostering productive discussions and collaborative environments.
 - **Feedback Interpretation:** Skilled in analyzing and acting upon student feedback to refine teaching methods and materials, resulting in improved course ratings.
 - **Public Speaking and Presentation:** Confidently delivered lectures and tutorials to large groups, ensuring content clarity and student engagement.
 - **Time management:** Successfully juggled responsibilities as a Teaching Assistant with a rigorous 5-course academic load, demonstrating exceptional time management and prioritization abilities.
 - Fluent in English, Hindi, and Marathi.

WORK EXPERIENCE

Teaching Assistant

September 2024-December 2024

Carleton University, Ottawa, Ontario

- Supported a cohort of over 300 first-year computer science students as a Teaching Assistant, receiving positive feedback for clarity and patience.
- Developed and delivered supplementary learning materials, resulting in enhanced student understanding and improved course ratings.
- Collaborated closely with professors and other teaching assistants to ensure consistent teaching methodologies and to address individual student needs.

APPLIED PROJECTS

- **NextJS Prompt Post Website** March 2024
 - Created a feature-rich CRUD web application utilizing **Next.js**, **MongoDB**, and **Tailwind CSS** to facilitate prompt generation for AI training. Leveraged Next.js for server-side rendering and seamless routing, enhancing user experience and application performance.
 - Implemented user authentication using **Google OAuth**, allowing users to securely log in and access personalized features. Integrated MongoDB to store user-generated prompts and associated metadata, ensuring data persistence and scalability.
 - Utilized Tailwind CSS for responsive and visually appealing user interface design, optimizing user interactions and overall usability. Employed CRUD operations to enable users to create, read, update, and delete prompts effortlessly, enhancing the application's functionality and user engagement.
- **ASP.NET Joke Management Web Application** March 2024
 - Created a CRUD web app using **ASP.NET** and **C#** for managing jokes. Features local authentication for user login and operations to Create, Read, Update, and Delete jokes from a local database.
 - Implemented robust local authentication for user account security.
- **React Firebase Social Media Project** January 2024
 - Developed a dynamic **Firebase-powered** social media application using **React**, showcasing expertise in **state management**, **router navigation with React Router DOM**, and leveraging **custom Hooks** for efficient code organization.
 - Implemented robust state management with **Redux**, enhancing the application's scalability and maintainability. Utilized React's component lifecycles to optimize the rendering process and ensure seamless user interactions.
 - Integrated **TypeScript** for enhanced code reliability and maintainability, ensuring type safety throughout the project. Incorporated React-Query for efficient data fetching, further optimizing the application's performance and responsiveness.
- **C Systems Programming project** December 2023
 - Developed an escape game using **C** with a server-client architecture, showcasing proficiency in **systems programming principles**. Implemented **low-level networking protocols**, **concurrent programming**, and efficient data exchange, resulting in a fully functional program. This project highlights my expertise in C programming and systems-level development.

