RAJBIN BK

95 CHAROLAIS BOULEVARD, BRAMPTON
RAJBIN-BK.GITHUB.IO
RAJBINSEN1390@GMAIL.COM
LINKEDIN.COM/RAJBINBK

PROFESSIONAL SUMMARY:

Enthusiastic Computer Science student with a passion for web design and development. Possess strong technical skills and a keen eye for detail. Eager to leverage my knowledge and creativity to contribute to the development of a high-quality web page. Committed to delivering exceptional results and enhancing my professional skills.

AREAS OF EXPERTISE:

Programming Languages:	HTML, CSS, Tailwind CSS TypeScript, JavaScript, SQL, Java, Python
Technologies:	Bootstrap, React, Node.js, Next.js Express, MongoDB, Git, Figma, POSTMAN
Operating Systems:	Linux, MacOS, Windows, Unix
Software Development:	Solid understanding of Software Development Lifecycle, computer organization, system design, UX and UI design
Soft Skills:	Team Leadership, Adaptability & Learning, Excellent Communication, Problem-Solving, Time Management, Effective team player
Other:	Competent in Adobe Experience Manager, Adobe Photoshop, Adobe Lightroom, and Adobe Premiere

PROFESSIONAL EXPERIENCE:

Nam's Hakka Jan 2023 - Present

Floor Manager

- Spearheaded a team of 15, enhancing restaurant operations and customer service, which contributed to improved customer satisfaction and loyalty.
- Initiated and led staff training and team-building activities, significantly improving team efficiency and service quality.
- Played a key role in strategic planning to boost restaurant profitability, also recognized as "Employee of the Month" for outstanding performance.
- Acted as a mediator for employee grievances and coordinated media and entertainment planning to enrich the customer experience.

Chawla's Cuisine May 2022 – Dec 2022

Server

- Built and maintained websites for clients through various online platforms
- Created and tested applications for websites
- Filed reports, gathered information, and performed research
- Created guides to document the processes and maintain business continuity

PROJECTS

Web Development Projects

Personal Portfolio Website

- **Technologies**: HTML, CSS, JavaScript, Bootstrap
- **Description**: Designed and developed a personal portfolio website to showcase projects and skills, emphasizing responsive design and user-friendly navigation.

E-commerce Website

- **Technologies:** HTML, CSS, JavaScript, Bootstrap
- **Description:** Collaborated with a team to create an e-commerce website for a class project. Focused on front-end development and enhancing user experience through intuitive design.

Real-Time Chat Application Using Next.js 13

- **Technologies**: : Next.js 13, React, TailwindCSS, Upstash Redis, TypeScript, Google Authentication
- **Description**: Implemented a real-time chat application designed for optimal performance and user experience. Utilized Upstash Redis to enable instant messaging, ensuring high-performance data retrieval and seamless communication between users. The application featured a comprehensive friendship system for managing friend requests, and integrated Google Authentication to secure user access. Leveraged TypeScript to enhance code reliability and maintainability. By refining the user interface with React and TailwindCSS, the app achieved a modern, responsive design. This project highlights a sophisticated approach to real-time messaging, emphasizing speed, security, and usability.

Employment Application Review System (EARS)

- **Technologies**: : Java, Java Collections Framework, Object-Oriented Programming
- **Description**: ·Designed and implemented a comprehensive intranet-based system for Algoma University's Department of Math and Computer Science. The system streamlined the job application review process with features like secure user authentication, user and faculty search management, application listing and review, collaborative decision-making tools, and account settings customization. Emphasized secure data handling, intuitive UI design, and extensive documentation for ease of use and maintainability.

Customer Support Chatbot Using Next.js and OpenAI

- **Technologies**: Next.js, OpenAI's ChatGPT, Upstash Redis, TypeScript
- **Description**: Developed an intelligent customer support chatbot that delivers real-time, natural language interactions using OpenAI’s ChatGPT. The chatbot provides users with instant, streamed responses, ensuring a smooth and efficient communication experience. Integrated Upstash to implement rate-limited API routes, maintaining security and performance by protecting against misuse. The application features optimistic UI updates to create a more responsive and user-friendly interface, while robust error handling guarantees reliable operation. Built with TypeScript, the project emphasizes code reliability and scalability, demonstrating the practical application of advanced AI in customer service.

Netflix Clone App - Full-Stack MERN Application

- **Technologies**: React.js, Node.js, Express.js, MongoDB, Tailwind CSS
- **Description**: Built a Netflix Clone application using the MERN stack. The app features secure JWT-based authentication, seamless movie and TV show streaming via external API integration, and a responsive UI optimized for mobile and desktop. Key features include an advanced search function for content discovery, video trailer playback, similar content recommendations, and a personalized search history. Designed a sleek landing page with an intuitive UI/UX. This project demonstrates expertise in full-stack development, API integration, and responsive design.

Web & 3D Development Projects

- **Technologies**: : HTML, CSS, JavaScript, PHP, MYSQL, Three.js, Next.js
- **3D Modeling and Animation with Three.js**
  - **Tree and Forest Simulation**: Created an interactive 3D environment replicating natural landscapes, demonstrating expertise in 3D graphics.
  - **Space Invaders Game Replica:** Developed a 3D version of the classic arcade game, showcasing integration of game mechanics and visual effects.
  - **Maze Puzzle Game:** Designed and implemented a 3D maze game, enhancing navigation and problem-solving skills, demonstrating complex spatial awareness and interactive design capabilities.
  - **Architectural Visualization of a House:** Developed a detailed 3D architectural visualization, allowing users to explore structural designs interactively, useful for real estate design and planning.

VM Allocation Using Genetic Algorithm

- **Technologies**: : Java
- **Description**: Implemented a genetic algorithm to optimize the allocation of Virtual Machines (VMs) to Cloud Service Providers (CSPs). Evaluated multiple criteria including cost, reliability, and latency to find an optimal allocation strategy. The project demonstrated significant improvements in cloud resource allocation efficiency by iteratively refining the allocation strategy through population initialization, fitness evaluation, selection, crossover, and mutation.

EDUCATION

ALGOMA UNIVERSITY May 2022 - Present

Bachelor of Computer Science - Software Engineering

- Recipient of President's Award
- Recipient of Algoma University Achievement Award

Amarsingh Secondary School 2017-2019

+2 Science Stream

- Recipient of the Merit Scholarships

VOLUNTEER EXPERIENCE:

Orientation Leader August 2023

Algoma University

- Provided information and resources for campus and academic adaptation.
- Fostered community through group activities.
- Resolved issues and promoted a welcoming campus environment.
- Assisted new students in addressing challenges and concerns.