

ARYAN RATTAN

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PROFESSIONAL PROFILE

Driven Software Developer with a strong foundation in full-stack web development, including front-end and back-end technologies, database systems, and software testing. Committed to delivering responsive, scalable, and high-quality solutions.

- Proficient in JavaScript, HTML/CSS, Node.js, React, and SQL with hands-on experience building full-stack applications
- Solid understanding of RESTful APIs, MVC architecture, and Agile development workflows
- Effective communicator with customer service experience, able to collaborate seamlessly across technical and non-technical teams
- Highly organized and detail-oriented with a commitment to clean code and best practices

EDUCATION

Software Development (DIPLOMA)

Southern Alberta Institute of Technology

Graduated: April 2025

- Member of SAIT UXicorns and SAIT Student Club – SSC
- GPA: 3.58/4.00

RELATED EXPERIENCE

User Management System (Capstone Project)

Southern Alberta Institute of Technology (SAIT) | CALGARY, AB

January 2025 – March 2025

Tech Stack: C#, PostgreSQL, React, TypeScript

- Implemented a user registration system, allowing seamless onboarding for new users with secure backend logic in C#.
- Developed robust user account management features, including create, update, and delete functionalities, using PostgreSQL for data persistence.
- Integrated profile image updates via webcam or local file uploads, enhancing user experience and personalization.
- Engineered a QR code-based check-in system to streamline attendance tracking, improving efficiency and reliability.

Low-Level Router Kernel – Class Project

Southern Alberta Institute of Technology (SAIT) | Calgary, AB

January 2025 – April 2025

Tech Stack: Rust, QEMU

- Developed a low-level router kernel in Rust, focusing on performance, modularity, and low-level hardware interaction.
- Built a custom bootloader to load and parse files during early system startup, enabling precise control over the initialization sequence.
- Simulated hardware behavior using QEMU to test and debug kernel components in a virtualized environment.

Low-Level E-Commerce Website – Class Project

Southern Alberta Institute of Technology (SAIT) | Calgary, AB

November 2024 – December 2024

Tech Stack: React, JavaScript, Node.js, MongoDB

- Built a full-stack e-commerce website for browsing and purchasing RC cars, featuring product listing, shopping cart, and user authentication.
- Implemented a responsive React front-end and a Node.js backend with RESTful APIs for product and user management.
- Utilized MongoDB for dynamic and scalable data storage, enabling a smooth shopping and login/signup experience.

Employee Management System – Class Project

Southern Alberta Institute of Technology (SAIT), Calgary, AB

March 2024 – April 2024

Tech Stack: C#, MAUI Desktop, SQLite

- Designed and developed a desktop-based employee management system using C# in the MAUI environment, ensuring a responsive and user-friendly interface.
- Result: Helped management to view and manage all users efficiently.

OTHER WORK EXPERIENCE

Cashier – Legacy Liquor | CALGARY, AB

October 2024 – Present

- Collaborate effectively with team members to maintain smooth operations in a high-paced environment.
- Support customers by recommending products and providing personalized service to enhance their shopping experience.

Customer Service Associate – Shell Convenience Store | CALGARY, AB

- Delivered excellent customer service consistently, ensuring a welcoming and efficient shopping experience for all patrons.
- Built strong connections with regular customers and contributed to a positive store atmosphere.
- Assisted with daily operations and organized the store environment.

TECHNICAL SKILLS

Languages & Frameworks

C# (backend logic, desktop apps), JavaScript & TypeScript (web apps), Rust (kernel dev), SQL (PostgreSQL, SQLite), HTML5, CSS3

Front-End Development

React (dynamic UIs, hooks, state management), MAUI (desktop UI), Responsive Design, UI/UX Principles

Back-End Development

Node.js (RESTful APIs, server-side logic), C# (.NET backend), Authentication, Authorization, Database Integration

Databases

PostgreSQL & SQLite (relational DBs with CRUD ops), MongoDB (non-relational, flexible schemas for e-commerce)

Tools & Technologies

Git & GitHub (version control, collaboration), Visual Studio, VS Code, QEMU (virtualization for kernel testing)

Concepts & Methodologies

Full-Stack Development, MVC Architecture, Agile Workflows, CRUD Operations, File Parsing, Custom Bootloaders, Systems Programming

Testing & Debugging

Console Debugging, Breakpoints, Error Tracking, QEMU-based Virtualized

Testing