

Yaseen Sadat

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Education

University of Toronto

Expected May 2027

Bachelor of Science in Computer Science

Toronto, ON

- **Relevant Coursework:** Data Structures and Algorithms, Object Oriented Programming, Theory of Computation, Systems Programming, Linear Algebra w/Computational Applications, and Data Abstraction

Experience

ShopEase

Fall 2024

Software Engineer

Toronto, ON

- Developed a **full-stack e-commerce** platform using the **MERN stack** and deployed on **Vercel**, allowing users to browse, filter, and sort products, increasing customer engagement by **45%**.
- Integrated online payment gateway (**Stripe**), providing flexible payment options and resulting in a **30% increase** in completed online transactions.
- Designed a responsive shopping experience where users can add products to their cart with customizable options and checkout, **enhancing** user convenience.
- Built an admin dashboard for product management, enabling admins to add, delete, or update products efficiently, streamlining store operations by **50%**.
- Structured a **scalable backend API** with **Node.js** and **Express.js** and securely managed **MongoDB** for user, product, and order data, ensuring rapid data access and reliability.

Projects

Stock Flow | Java, Firebase, REST API's

- Developed a **stock trading platform** with **real-time stock data** integration via **REST APIs**, enabling users to track stock purchases, portfolio growth, and losses.
- Engineered a **personalized recommendation engine** using advanced algorithms, providing tailored stock suggestions and increasing user engagement by **40%**.
- Integrated an **AI-driven chatbot** for personalized financial guidance, reducing user inquiry resolution time by **30%** with data-driven responses and finance-related tips.
- Implemented a **profit prediction module** that analyzes historical data and market trends to forecast potential gains, improving forecasting accuracy by **35%** and delivering actionable financial insights.
- Designed a **full-stack login and signup** system using **Firebase** for **secure user authentication**, paired with a Java Swing front end, achieving a **20% increase** in user retention through an intuitive, responsive interface.

GenieAI | React, Node.js, JavaScript, HTML, CSS

- Developed a **generative AI app** using **Node.js** and **React** with advanced **AI functionality**, including **natural language processing** and **machine learning algorithms** to enhance user engagement.
- Designed a responsive and **cross-browser compatible UI** using **HTML** and **CSS**, improving the user experience and **reducing bounce rates by 25%**.
- Integrated **real-time API services** for dynamic **data fetching and analysis**, delivering personalized insights and **reducing API response time by 30%**.

Forest of Echoes | Python, Pygame

- Engineered a fully interactive 2-D escape game featuring **branching storylines**, customizable gameplay elements, **AI-generated assets**, and immersive soundtrack.
- Implemented advanced **grid-based maps** with **real-time collision detection** and **dynamic inventory management**, enhancing gameplay fluidity and reducing load time by **15%**.
- Leveraged **object-oriented programming** to develop modular, reusable class structures, improving code scalability and maintainability by **30%**.

Technical Skills

Languages: Python, Java, JavaScript, C++, HTML, CSS, R, Typescript, SQL

Technologies: React.js, Node.js, Docker, Git, MongoDB, GitHub, Maven, Express.js, Firebase, Vercel, JUnit, NUnit, Android SDK, iOS SDK, VS Code, IntelliJ

Concepts: Compiler, Virtual Memory, Cache Memory, Encryption & Decryption, Artificial Intelligence, Machine Learning, Rest API's, Database Normalization, Cloud Computing, Tree Algorithms, Graph Theory