

# 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

### Lumenera

Fall 2024

*Founder & Developer*

- Developed a **full-stack** digital collectibles storefront using the **MERN stack**, deploying it on **Vercel** for global accessibility. Delivering a seamless environment for discovering and purchasing exclusive digital trading cards.
- Implemented a dynamic, **React-based** front-end and a **Node.js/Express.js** backend, leveraging **MongoDB** for secure data storage and **Cloudinary** for efficient image optimization.
- Integrated **Stripe** as a secure payment gateway, offering flexible checkout options and ensuring reliable, streamlined transaction processes.
- Designed intuitive **user flows** enabling customers to browse, personalize selections, and add products to their carts before smoothly completing purchases, enhancing overall user satisfaction.
- Built an **administrator dashboard** for effective product management, simplifying updates to listings and ensuring efficient, scalable operations as the platform grows.

## Projects

### StockFlow | [github.com/StockFlow](https://github.com/StockFlow) | *Java, Firebase, REST APIs*

- Developed an educational, mock **stock trading platform** guided by **clean architecture** principles and leveraging **REST APIs** for real-time market data, enabling users to explore diverse stocks, view historical trends, and engage in simulated trades.
- Integrated an **AI-driven chatbot** for personalized financial guidance, delivering intuitive, on-demand insights and improving user engagement with educational finance-related tips.
- Implemented a **secure authentication system** using **Firebase** to streamline account creation, login, and logout processes, while employing a **Java Swing** front end to enhance user interaction and retention.
- Designed an interactive **portfolio management** feature for users to buy, sell, and track stock performance, complemented by transparent transaction histories and customizable data visualization tools.

### GenieAI | [github.com/GenieAI](https://github.com/GenieAI) | *React, Node.js, JavaScript, HTML, CSS*

- Developed a **generative AI application** powered by the **OpenAI API**, delivering context-aware responses and creative insights to a wide range of user prompts.
- Employed **prompt-engineering techniques** to shape model output into a friendly, “genie-like” persona, enhancing user engagement and thematic consistency.
- Crafted a clean, **responsive UI** in React, HTML, and CSS, incorporating dynamic typing animations, interactive sidebars, and prompt histories, resulting in an immersive, user-centric experience.
- Integrated **Node.js** for efficient backend operations and real-time data handling, ensuring smooth communication between the front-end and AI services.

### Forest of Echoes | [github.com/Forest-of-Echoes](https://github.com/Forest-of-Echoes) | *Python, Pygame*

- Engineered a **2D escape game** in Python and Pygame featuring branching storylines, customizable gameplay elements, **AI-generated assets**, and an immersive soundtrack.
- Implemented **grid-based maps** with real-time collision detection and dynamic inventory management, enhancing gameplay fluidity and responsiveness.
- Leveraged **object-oriented programming** principles to create modular, reusable class structures, improving code scalability and maintainability.

## Technical Skills

**Languages:** Python, Java, JavaScript, TypeScript, C++, C, C#, HTML, CSS, R, SQL

**Frameworks:** React, Node.js, Express.js, Django, Flask, React Native, JUnit, NUnit, Tailwind CSS, Bootstrap, Vue.js

**Tools:** Git, GitHub, Docker, Kubernetes, MongoDB, Postman, Firebase, Cloudinary, Maven, Vercel, VS Code, AWS, Azure

**Concepts:** Databases, Encryption & Decryption, Artificial Intelligence, REST APIs, Cloud Computing, Unit Testing