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 | 🌐 lumenera.onrender.com   Fall 2024
Founder & Developer
- Built a trading card platform (**MERN stack**) from scratch with a visually immersive interface, enabling product browsing with **advanced filtering**, **sorting**, and **cart management**, significantly enhancing overall user experience.
- Designed secure **JWT-based authentication** by implementing time-bound password resets using **bcrypt encryption** and integrated **Stripe** for reliable checkout, exposing **RESTful endpoints** to manage user sessions, payments, and profile updates, ensuring a seamless and protected user experience.
- Containerized services using **Docker Compose** for efficient local development and consistent production environments, established a robust **CI/CD pipeline** with **Jenkins** for orchestrating builds and running automated integration tests, and deployed on **Render**.
- Engineered a dedicated **admin panel** for streamlined management of products, orders, and platform settings, adopting a **scalable architecture** that supports **horizontal growth** and ensures consistent performance under increasing user traffic.
- Implemented industry best practices by using **MongoDB** for scalable data management, **Jest** for unit testing, and additional linting and end-to-end testing. Proactively monitored performance with profiling tools and **optimized build processes to reduce load times by 35%**, maintaining a high-quality, maintainable codebase.

Projects

StockFlow | 🐙 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 | *React, Node.js, JavaScript, HTML, CSS*
- Developed a **generative AI application** powered by the **OpenAI API**, leveraging **prompt-engineering techniques** to deliver context-aware responses and maintain a consistent, "genie-like" persona.
- Crafted a clean, **responsive UI** in React and React Native Web with dynamic typing animations, interactive sidebars, and prompt histories, resulting in an engaging, user-centric experience.
- Integrated **Node.js** for efficient backend operations and real-time data handling, ensuring seamless communication between the front-end and AI services.

Forest of Echoes | 🐙 github.com/Forest-of-Echoes | *Python, Pygame*
- Developed a **2D escape game** in Python and Pygame with branching storylines, customizable gameplay elements, **AI-generated assets**, and an immersive soundtrack.
- Implemented **grid-based maps** for real-time collision detection and dynamic inventory management, leveraging **object-oriented programming** principles to ensure modular, scalable code.

Technical Skills

Languages: Python, Java, JavaScript, TypeScript, HTML, CSS, R
Frameworks: React, Node.js, Express.js, Tailwind CSS, Jest, Pytest, Pygame, Pandas
Tools: Git, GitHub, Docker, MongoDB, Jenkins, Postman, Firebase, Cloudinary, Maven, VS Code, AWS, JWT, Babel
Concepts: Databases, Encryption & Decryption, Artificial Intelligence, REST APIs, Cloud Computing, Automated Testing