




Aditya Shinde

✉ shindeaditya004@hotmail.com  linkedin.com/in/adityapshinde ☎ 4165767220  github.com/Adi-Shinde
 adityashinde.vercel.app

EDUCATION

Bachelor of Engineering: Computer Engineering (Graduation 2027),

Toronto Metropolitan University (formerly Ryerson University)

Sep 2022 – Apr 2027

Toronto, Canada

- Courses – Coding Algorithm and Data Structures (Java, Python), Electrical Systems and Arduino, Linear Algebra (Matlab), Discrete Mathematics

SKILLS

Languages: Java, C, C++, Python, VHDL, HTML, CSS, JavaScript, SQL

Frameworks: React.js, Bootstrap, Node.js, Express.js

Tools: Git, GitHub, VSCode, Firebase, MongoDB, Quartus II, Flutter, Microsoft Office, Figma

EXPERIENCE

Software Development & Propulsion, Metropolitan Aerospace and Combustion Hub

Oct 2024 – present

- Develop software for control systems of the rocket using Python, C++, and JS for real-time data processing, and system integration.
- Conducted ablation testing as part of the Propulsion subteam, to develop high-performance rocket engine modules.

Metropolitan Undergraduate Engineering Society, External and EDI Committee

Jul 2023 – Dec 2024

- Managed the recruitment and selection of students for conferences and meetings to universities.
- Led the planning and execution of events and initiatives to support 1000+ first-year students at the university.

Ryerson Supermileage SAE, Engine and Electrical Team

Jul 2022 – Aug 2023

- Worked with a team to design, build, and race a high-efficiency vehicle for the SAE Supermileage Competition.
- Engineered custom components for the Briggs & Stratton 206 engine to optimize fuel efficiency and performance.
- Developed the internal electrical system and modules for vehicle and engine system.

PROJECTS

Portfolio Website (adityashinde.vercel.app)

- Created a personal portfolio website to showcase my projects, skills, and experience.

AudioScribe (audioscribe.vercel.app), | Javascript, whisperAI, nextjs, react

- Real-time **audio-to-text** transcription app using Whisper AI for speech recognition in **<0.8 seconds**.
- Developed the frontend with Next.js, TypeScript and react for responsive design.
- Integrated audio upload upto **60 mins** and seamless transcription features .

Bank Database System (shorturl.at/Gisgf), | Java, Swing, MySQL Database

- Banking system using Java, Swing, and MySQL for **user authentication** and account management with upto **1000+** users.
- Account creation, withdrawals, deposits, and PIN management with backend logic.
- Multi-user support with secure login and signup functionalities with Swing GUI.
- MySQL to store user accounts, transactions, and banking statements with optimized SQL queries.

Pathfinding Visualizer (pathsolverdsa.vercel.app), | Javascript, Python

- An interactive webpage to visualize pathfinding algorithms like **A***, **Dijkstra's**, **BFS**, and **DFS** to showcase understanding of **Data Structures** and **Algorithms** .
- Real-time grid interaction using HTML5, and event-driven JavaScript with less than **2 second** delay.
- Algorithm-specific logic with adjustable animation speeds, start/end point customization, and visual feedback.