





Aditya Shinde

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EDUCATION

Bachelor of Engineering: Computer Engineering (Graduation 2027), Sep 2022 – Apr 2027
Toronto Metropolitan University (formerly Ryerson University) Toronto, Canada

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

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 at other universities.
- Led the planning and execution of events and initiatives to support incoming 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 and integrated the internal electrical system and modules for vehicle and engine system synchronization.


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


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 

- Built a real-time audio-to-text transcription app using Whisper AI for speech recognition.
- Developed the frontend with Next.js and Tailwind CSS for responsive design.
- Integrated audio upload and seamless transcription features.
- Optimized performance and UI with lucide-react and TypeScript.

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

- Built a banking system using Java, Swing, and MySQL for user authentication and account management.
- Implemented features like account creation, withdrawals, deposits, and PIN management with backend logic.
- Added multi-user support with secure login and signup functionalities with Swing GUI.
- Used MySQL to store user accounts, transactions, and banking statements with optimized SQL queries.

MERN Commercial Website, | MongoDB, Express.js, React, Node.js, tailwind css

- Built a full-stack e-commerce platform using the MERN stack (MongoDB, Express.js, React, Node.js).
- Implemented user authentication and shopping cart functionality.

- Integrated secure payment processing with third-party APIs.
- Developed RESTful APIs for product and order management.