

Rushil Karani

rushil.karani@gmail.com | rushilkarani.vercel.app | (647) 617-4366 | [LinkedIn](#) | [GitHub](#)

EDUCATION

McMaster University (B. Eng) <i>Honours Software Engineering (3.9 GPA), Dean's Honour Roll (2024, 2025)</i> Relevant Coursework: Data-Structures & Algorithms, Databases, OOP (Java), Software Design Principles, Concurrent Systems, Linear Optimization.	Sep. 2023 – Apr. 2027 Hamilton, ON
--	---------------------------------------

KEY SKILLS

Languages: JavaScript, Java, Python, C/C++, TypeScript, SQL, MATLAB, Bash, Verilog, YAML, UML. Developer Tools: Node.js, React.js, Express, Spring Boot, Angular, Tailwind CSS, HTML/CSS, MongoDB, Git, CI/CD, MySQL, Pandas, NumPy, Matplotlib, Linux, Microsoft 365, Google Workspace, Maven, Cohere API, Google API Courses: Learning Cloud Computing: Core Concepts (LinkedIn), Learning AWS for Developers (LinkedIn), Cybersecurity Foundations (LinkedIn), Microsoft Azure Foundations (LinkedIn).
--

PROJECTS

HealthConnect  <i>JavaScript, Node.js, React.js, MongoDB</i>	Jan. 2025
<ul style="list-style-type: none">Developed a healthcare web application, to reduce wait times in 5 walk-in clinics by up to 20%.Used the MERN stack for full stack app development, increasing production speed by 5 hours.Developed an AI chatbot using Cohere's API and resolved 10+ complex issues in the chatbot and UI.Implemented doctor and patient UIs to communicate/book appointments, increasing usability by 50%.	
EquiHire  <i>Python, Google Vision API, Java, JavaScript, React, SQL</i>	Feb. 2025
<ul style="list-style-type: none">Built an AI resume screening tool that reduced hiring biases by 30% and speeds up hiring process by 10%.Used Google Cloud Vision API, Flask and SQL to build a resume screening tool with 90% accuracy.Troubleshoot 5+ complex issues, overcoming challenges like API integration and Git merge conflicts.	
MatrixMate  <i>C, Git, Bash, Linux Command Line</i>	Dec. 2024
<ul style="list-style-type: none">Built a Matrix Calculator using C, capable of efficiently performing 6+ complex matrix operations.Improved runtime efficiency by 25% with optimized memory allocation, pointers and dynamic arrays.Accelerated development time by 20% using GitHub workflows for automated testing across 30+ commits.	
ScholarSync <i>Java, Vaadin, UI/UX</i>	Jun. 2023
<ul style="list-style-type: none">Built a web app to help students log notes, track tasks, and calculate GPA, boosting productivity by 30%.Implemented Java backend logic and a modern GUI using Vaadin's framework, improving usability by 50%.Followed SDLC and Agile, iterating on client feedback to enhance 5 features and resolve 15 usability issues.	
McMaster Engineering Competition - Won 2nd Place	Nov. 2024
<ul style="list-style-type: none">Designed a smart, non-invasive drone that reduces crime scene investigation times by up to 5 hours.Heavily focused on ethics; making the drone socially, environmentally, and economically ethical and sustainable.Earned 2nd Place (out of 10 teams) in Innovative Design at the McMaster Engineering Competition.	

EXPERIENCE

FIRST Robotics - Programming Subteam <i>Glenforest FRC Team</i>	Sep. 2022 – Jun. 2023 Mississauga, ON
<ul style="list-style-type: none">Helped design a robot that competed against other robots at the FIRST Robotics Competition.Increased bot speed by 10% from previous years, by using the colour sensors for position tracking.Reduced bot latency by 15% by using a pipeline architecture and efficient memory allocation.	
Facilitator - YEY Leadership Course <i>Youth Empowering Youth Foundation</i> 	Jun. 2021 – Apr. 2023 Vancouver, BC
<ul style="list-style-type: none">Facilitated multiple workshops for high school students and coached them to build leadership skills.Empowered participants to become future leaders by promoting skill development tasks and personal growth.Reinforced my leadership, facilitation and self-management skills, alongside building new technical skills.	