Goshanraj Govindaraj

437-329-9501 | govindag@mcmaster.ca | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

Bachelor of Applied Science, Honours Computer Science   *Sept. 2024 – Apr 2028*
McMaster University, Hamilton ON; GPA (3.9/4)

EXPERIENCE

Community and Code Team Ambassador   *Sep. 2024 – Present*
Google Developer Student Clubs, Hamilton ON

- Organized and successfully led over **10** community and coding events, including engaging tech talks and hands-on workshops, attracting an average of over **50** participants per event, and contributing to a **30%** increase in community engagement
- Assisted in developing and actively maintaining structured code repositories for event-related projects, ensuring high code quality and facilitating seamless collaboration among a team of **15+** contributors through version control systems like **Git**
- Played a significant leadership role in various community events such as Resume Roasts, attended by **75+** participants, engaging OpenCV workshops with **150** attendees, and the "Behind the Scenes of ChatGPT" workshop, with **100+** attendees

PROJECTS

Car Dealership Platform | *React, JavaScript, PHP, MySQL, Linux*

- Built a **full-stack** dealership platform for a **client** to enable browsing, searching, and managing car listings with dynamic filtering, responsive design, real-time inventory updates, secure user authentication, and profile management
- Developed secure **user authentication**, real-time filtering, and full **CRUD** operations for listings using a **PHP/MySQL** backend, **RESTful APIs**, and optimized **SQL** queries with indexing, pagination, and validation to ensure data integrity and security
- Designed an interactive front-end with **React** and **JavaScript**, enabling a seamless and responsive experience for all users

House Price Predictor | *Python, pandas, scikit-learn*

- Built a **machine learning** model to predict Toronto house prices using features like house size, total bedrooms, and location, helping homeowners assess value during the housing crisis; achieved a **mean absolute error** of **±5%** with high accuracy
- Utilized **NumPy** for efficient numerical computations, optimizing complex preprocessing workflows and reducing overall computation time by **20%**, and used **scikit-learn** to implement, fine-tune, and evaluate the **Random Forest model**
- Preprocessed a dataset of **1,000+ records** using **pandas** for data cleaning, normalization, and efficient feature encoding

Interactive Portfolio Website | *React.js, Next.js, TailwindCSS, TypeScript*

- Designed and developed a **fully responsive** and visually engaging personal portfolio website, showcasing projects and technical expertise through an intuitive and **modern UI** with smooth animations using **TailwindCSS**, **React.js**, and **TypeScript**
- Optimized website performance through **lazy loading**, **DOM manipulation**, and **animations** for smooth interactivity

Healthcare SMS Bot | *Flask, Python, Twilio API*

- Built a **short message service** based healthcare assistant using **Twilio** and a **Flask** backend, delivering critical and personalized health tips to individuals in areas with limited or no internet access, significantly improving overall health awareness by **50%**
- Integrated a **geolocation API** to identify user locations and deliver precise nearby hospital recommendations with a verified **99%** accuracy when the trained model detects a potential medical emergency based on a phone number analysis

GitHub Profile Viewer | *TypeScript, HTML, CSS, GitHub API*

- Developed a **responsive web application** that allows users to search and view GitHub profile statistics, showcasing proficiency in **front-end development** and **API integration** with **TypeScript**, **HTML**, and **CSS**
- Incorporated search functionality and **data visualization** techniques to present **user statistics** and repository information in an engaging manner, demonstrating skills in interpreting and **presenting web data effectively**, aiding understanding

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, C, HTML, CSS, SQL
Frameworks: Flask, Node.js, React, Next.js, TailwindCSS
Developer Tools: Visual Studio Code, Git, GitHub, MongoDB, MySQL, Linux