

Goshanraj Govindaraj

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EDUCATION

Bachelor of Applied Science, Honours Computer Science

McMaster University, Hamilton ON; GPA (3.9/4)

(Expected) Apr. 2029

EXPERIENCE

Community and Code Team Member

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

Scam Caller Identifier | Python, Node.js, React, PostgreSQL, Twilio API

- Developing a real-time scam detection platform that cross-references **scam databases**, **user reports**, and **AI-driven analysis** to identify fraudulent phone numbers, prevent potential fraud, and enhance user security effectively
- Implementing a robust backend using **Node.js** and **FastAPI** to handle phone number lookups, metadata extraction, and scam detection through **Twilio Lookup API** and **NumVerify API**, ensuring accurate and real-time verification
- Building a user-friendly front-end utilizing **React** with real-time search capabilities, allowing users to quickly verify phone numbers, access scam reports, and report suspicious activity for improved community-driven scam prevention efforts

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 | HTML, CSS, JavaScript

- 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 **HTML**, **CSS**, and **JavaScript**
- Optimized website performance through **lazy loading**, **DOM manipulation**, and **CSS 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 remote areas with limited 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 of the user

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

- Developed a **responsive web application** that allows users to search and view GitHub profile statistics, demonstrating 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, C++, C, HTML5, CSS3, TypeScript, SQL, PHP

Frameworks: Flask, Node.js, React, Next.js, Auth.js, TailwindCSS

Developer Tools: Visual Studio Code, Git, GitHub, MongoDB