Goshanraj Govindaraj

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EDUCATION

McMaster University — Hamilton, ON
Bachelor of Applied Science in Computer Science; GPA: 3.9/4 — *(Expected) Apr. 2029*
- Relevant Courses: Software Web Design (**JavaScript**, **React**, **Node.js**, **SQL**), Software Development Basics (**C/C++**, **Git**, **Linux**), Intro to Programming (**Python**), Intro to Computational Thinking (**Haskell**)

EXPERIENCE

Open-Source Software Developer — Dec. 2024 – Present
Reality AI Lab — *Remote*
- Developed **open-source AI** tools employing **React**, **Node.js**, and **Python**; implemented features that improved user interaction by enabling real-time data processing for **2,000+** active users on educational platforms
- Enhanced system performance by managing scalable data processes with **FirestoreDB** and **Redis**; achieved optimal query response times catering **1,000+** user interactions each day with consistent reliability
- Powering AI-driven solutions projected to serve **10,000+ users**, for future growth across educational platforms

Community and Code Team Member — Sep. 2024 – Present
Google Developer Student Clubs — *Hamilton, ON*
- Organized and led over **10** community and coding events, including tech talks and workshops, attracting an average of **50+** participants per event, and contributing to a **30%** increase in community engagement
- Assisted in developing and maintaining code repositories for event-related projects, ensuring code quality and facilitating collaboration among a team of **15+** contributors through version control systems like **Git**
- Played a significant role in various community events such as Resume Roasts, attended by **75+**, OpenCV workshops with **150** attendees, and the "Behind the Scenes of ChatGPT" workshop, with **100+** attendees

PROJECTS

Calorie and Macro-nutrient Tracker | *JavaScript, C++ Node.js, MongoDB, React*
- Developing a full-stack calorie and macro-nutrient tracker app, enabling users to log meals and track daily intake with real-time calorie data from a database of **10,000+** food items featuring user authentication with **Auth.js**
- Implementing a **React-based** interactive UI, a **Node.js** and **C++** backend for efficient data processing, and **MongoDB** for scalable storage ensuring seamless performance and availability of comprehensive food data

Healthcare SMS Bot | *Flask, Python*
- Built a **short message service** based healthcare assistant using **Twilio** and a **Flask** backend, delivering health tips to individuals in remote areas with limited internet access, improving overall health awareness by **50%**
- Trained an **OpenAI model** to analyze and interpret user queries, providing context-aware healthcare advice and personalized recommendations, ensuring an response accuracy of **95%** across diverse medical topics
- Integrated a **geolocation API** to identify user locations and deliver precise nearby hospital recommendations with a verified **99%** accuracy when the trained model detects an potential medical emergency situation

House Price Predictor | *Python*
- Built a machine learning model to predict Toronto house prices with features like neighborhood and house size, and number of bedrooms, achieving a **mean absolute error** of **±5%** on the test set with high accuracy
- Preprocessed a dataset of **1,000+ records** using **pandas** for cleaning, normalization, and feature encoding
- Utilized **NumPy** for efficient computations, optimizing preprocessing workflows and reducing computation time by **20%**, and used **scikit-learn** to implement and evaluate the **Random Forest model** effectively

TECHNICAL SKILLS

Languages: Python, JavaScript, C++, C, HTML5, CSS3, TypeScript, SQL, Haskell, PHP, Java
Frameworks: Flask, Node.js, React, TailwindCSS, Bootstrap, Auth.js
Developer Tools: Visual Studio Code, Git, GitHub, MongoDB
Libraries: Pandas, NumPy, Matplotlib, JSON, scikit-learn