

# Vaibhav Lakshmi Santhanam

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## Education

**University of Toronto – Honours Bachelor of Science**  
**Computer Science Specialist in Software Engineering (Co-op),**  
**Minor in Economics**

Sept 2021 - Aug 2025

## Technical Skills

**Languages:** C, Python, Java, Javascript, CSS/HTML, Assembly, SQL, Bash

**Developer Tools:** VSCode, GitHub, Git, Jira, Jenkins, Postman, IntelliJ, Robot Framework, Selenium, Eclipse, Android Studio

**Courses and others:** Data Structures and Algorithms, Object Oriented Programming, Operating Systems, Agile (Scrum), GDB, Valgrind, SDLC

## Experience

**QA Specialist Intern** | SOTI RIL, Connect team

Sept 2023 - Apr 2024

- **Automated test** processes with **Selenium**, enhancing efficiency and coverage. Developed **Robot Framework** test suites for functional validation.
- Utilized **Jenkins** to **automate build and deployment processes**, ensuring consistent integration of applications.
- Streamlined **API testing** workflows with **Postman**, facilitating efficient identification and resolution of issues.

## Hackathon

**DS3 Datathon** | UTSC

Jan 2024

- Achieved **98.7% accuracy** in developing a **CNN-based traffic sign recognition model**, securing **top rank on Kaggle** and demonstrating expertise in **deep learning** and **image processing**.
- Led **celestial body classification** with a neural network, attaining **97% accuracy** in prediction.
- Developed a **heart disease prediction model** with **83% accuracy**, showcasing **machine learning** capabilities. Collaborated in a **competitive datathon**, securing a **top 5 position** among over **40 teams**.

## Projects

**EcoPredict** | Python, NLP, BERT, Machine Learning

Jan 2024 - present

- Key contributor in developing **EcoPredict** at the **GenAI Earth Hack 2024**. An **AI evaluator tool** to assess the **potential of circular economic innovations** using **BERT-based machine learning model**.
- Managed **data preparation, text tokenization, and model training**, adapting to the rapid development environment achieving an **accuracy of 93 percent**.
- Actively extending the project's scope post-hackathon, focusing on advanced strategies for comprehensive analysis and user engagement.

**MyBnb Database Project** | Java, SQL

May 2023 - Aug 2023

- **Engineered** an Airbnb-inspired rental platform with features for guests and hosts utilizing **Java** for **backend development** and complex **MySQL queries** for **data retrieval and analytics**. Developed **host tools** for listing enhancement recommendations, boosting user engagement and rental attractiveness.
- Implemented a **dynamic pricing algorithm** to advise hosts on competitive rates based on market **data analysis**.

**Concurrent System Monitoring Tool** | C, Unix, Shell Scripting

Jan 2023 - Apr 2023

- Architected a **multi-threaded system monitoring** tool in **C**, enabling real-time tracking on Unix platforms. Innovated **inter-process communication** techniques using **pipes**, optimizing system performance and **data accuracy** for 10,000+ monitoring iterations.
- Crafted a custom **GUI** for **memory and CPU** metrics, utilizing visual symbols to reflect system changes, thereby enhancing user interaction.

**PrepWell App** | Java, Kotlin, Android Studio, Firebase

Nov 2022 - Dec 2022

- A mobile app facilitating students academic planning and course management, ensuring a seamless user interface in **Android Studio** using **Java and XML** following **OOP** principles.
- Implemented **Firebase Firestore** for secure and efficient user data storage and authentication. Utilized the **Model-View-Presenter (MVP)** architecture to structure the app's development and to facilitate systematic testing with **JUnit** and **Mockito**.
- Orchestrated the build process and managed dependencies efficiently using tools like **Gradle, Maven, and XML**.
- Coordinated in a **team of five**, following **Agile methodologies** with **daily scrum sessions**, to drive consistent progress and on-time project delivery.