

Vaibhav (Vai) Patankar

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Relevant Links: [LinkedIn](#) | [GitHub](#)

Programming Languages: C++, C#, Java, Python, HTML, CSS, XML, SQL, Ruby

Frameworks: .NET MAUI, SDL 2.0, Processing, Pygame, NodeJS, React, Open-GL

Technologies: Git, Unity3D, VSCode, Visual Studio

EDUCATION

Conestoga High School - Senior

August 2021 - June 2025

Relevant Coursework: AP Computer Science A (Java), App Development 1 & 2 (C#), AP Statistics, AP Computer Science Principles (Python), AP Physics C: Mechanics, Electricity and Magnetism, AP Calculus

PROJECTS

Map App | [Github Code](#) | C#, .NET, MAUI, XAML, XML

2024

- Built a lip-reading algorithm from scratch for helping the deaf by using deep learning and computer vision
- Designed a script to collect ~700 individual videos of people speaking words, roughly amounting to 3GB of training data
- Used 3D-CNNs to classify frame sequences into words and achieved a training and testing accuracy of 97.4% and 99.2%
- Final model has high precision, recall, and F1 score, and is lightweight enough to run and predict in real-time

RPG Game | [Demo](#) | C++, SDL 2.0

2023

- Training LSTMs on historic intraday data at 1 minute intervals to create an automated stock bot

Unity Projects | [Github Code](#) | C#

2024

- Using React and PostgreSQL to develop full-stack application for market simulations and bot trading visualizations

Evil Hangman | [Github Code](#) | C#

2023

- Using React and PostgreSQL to develop full-stack application for market simulations and bot trading visualizations

AP CSA Projects | [Github Code](#) | JAVA, Processing

2022

EXPERIENCE

Robotics Team Lead Programmer

September 2022 - Present

Vex Robotics 6121A - Worlds Division Semifinalist

Honors and Awards

- USACO Gold(C++)
- 1X AIME Qualifier
- AP Scholar