Ayush Garg

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EDUCATION

Foothill High School — Expected Graduation 2024

High School / Secondary Diploma — *Pleasanton, CA*

- Part of Junior Badminton Team Grade 10, Part of Senior Badminton Team Grade 11
- Part of DECA, Qualified for DECA Provincials, Placed top 10 overall (score of 166/200) and top 10 in test cases (score of 92/100) in regionals for the category Principles of Business Management, Scored 90/100 in test case 1 and 95/100 in test case 2 at DECA Provincials competing against students in all of Ontario

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, HTML, CSS, Swift, Go Lang
Frameworks: React, Node.js, Next.js, Svelte, SwiftUI, UIKit
Developer Tools: Git, Google Cloud Platform, Visual Studio Code, xCode, Android Studio
Technologies: MongoDB, Firebase, Express, Oracle Cloud Tools

EXPERIENCE

University of Toronto — Mar. 2023 - Present

Web Developer Assistant

- Web Developer at Emerging Technologies and the Arts Lab (Et Al) working under Professor Rhonda McEwen
- Creating a website layout for Et Al by using standard HTML/CSS and Figma for wireframing the website
- Working alongside 3 undergraduate students at University of Toronto to develop the website

Our Wave Hub — Jun. 2022 – Aug. 2022

iOS App Developer Co-op

- Utilized Swift and XCode to develop an app that allows users to view life hacks in a blog format
- Developed the wireframe for the BlogHax app using Figma and utilized feedback to make a functional prototype
- Learned how to think in an entrepreneurial mindset in this pilot program in partnership with Apple Canada

PROJECTS

MarioKart-AR (LosAltosHacks VII Winner) | *8th Wall, JavaScript, HTML, CSS, Blender, LIDAR* | **Devpost Link**

- Created a web based AR app letting users play MarioKart through real-world exercise to promote physical activity
- Used LIDAR and Blender to make a model of the Juniper Stage allowing for AR generated obstacles on the track
- Won 1st place Niantic's prize category at the largest high school hackathon in the west coast, winning $1500 USD

uTalk (UofTHacks X Winner) | *React.js, Python, Flask, Cohere, Dall-E, SQLite* | **Devpost Link**

- Therapeutic voice assistant with self-learning capabilities to aid users in transitioning into real-life therapy sessions
- Implemented DALL-E functionality to find an image that summarizes the user's conversation with the Assistant
- Trained the Cohere model with 100+ instances of data to ensure accurate and quick results when asked a question

Motional (Hack The Valley 7 Winner) | *Python, Mediapipe, OpenCV, PyGame* | **Devpost Link**

- Developed an application using Python that detects user's body motions to execute commands and act as a macro
- Made it possible to play PyGames through the physical movement of the user to encourage exercising
- Incorporated user requested hand positions to execute repetitive actions which also simplified user's workflow

Tune Turn (MakeUofT 2023 Winner) | *Java, Android Studio, Qualcomm HDK 8450, Python* | **Devpost Link**

- Android app that uses computer vision to turn to the next page of sheet music through a head gesture
- Used Qualcomm HDK 8450 development kit for testing and to process whether to turn left or right
- Optimized model to deliver 1 second response time and 93.4% accuracy resulting in quick and accurate turns

VBall Trainer (1st place hack::peel) | *Python, Mediapipe, OpenCV* | **Devpost Link**

- Made an application to help users improve their volleyball technique by incorporating skeleton tracking
- Created technique-detecting functionality by calculating the angle of the user's arms and detected sets and bumps
- Placed 1st in Peel District School Board district wide hackathon held by the 2nd largest school board in Canada

Figgy | *TypeScript, Node.JS, MongoDB, Eris*

- Developed a Discord bot which featured mini-games and advanced emoji system served more than 50,000 users
- Automated fetching media from websites and server moderation to increase capabilities of the bot to attract users
- Scaled the service by hosting the bot on a VPS with 4 cores and 24 GB of ram utilizing Oracle Cloud Infastructure