

ANCHIT MISHRA

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EDUCATION

University of Hong Kong

B.Eng in Computer Science

Overall GPA: 3.92, Dean's Honor List 2019-20

September 2019 - Present

Hong Kong SAR

Relevant Coursework: Data Structures and Algorithms, Discrete Mathematics, Object-Oriented Programming, Operating Systems, Computer Networks, Distributed Computing, Linear Algebra, Probability and Statistics, Multivariable Calculus, Quantum Information, Applications of Artificial Intelligence.

WORK EXPERIENCE

MITACS Globalink Research Intern

June 2021-Present

University of Waterloo

Working in the Haptic Computing Lab at Waterloo under the supervision of Professor Oliver Schneider on evaluating haptic experience. My work focuses on using Machine Learning techniques in Haptics for both analysis and experimentation.

Undergraduate Research Assistant

January 2021-Present

University of Hong Kong

Working in the Foundations of Computer Science research group at HKU under the supervision of Professor Giulio Chiribella on Quantum Information, in focusing on the concept of Joint Measurability and its computing applications.

OliveX

December 2020 - January 2021

Machine Learning Intern

Cyberport, Hong Kong

- Created Machine Learning pipelines to facilitate the development of ML-based features in the Kara fitness mirror.
- Implemented scrapers to obtain data for training models on data such as workout postures
- Set up an AWS pipeline to automate the image scraping and data cleaning/annotation process using Lambda, S3 and Sagemaker
- Worked on a Convolutional Neural Network to classify individual user workouts to track overall workout progress.

Thabit Technologies

June 2019 - September 2019

Software Engineering Intern

Noida, UP

- Worked with the three.js library and Blender to create online user experiences with 3D assets.
- Improved performance of rendering high poly-count models in mobile browser viewports by using techniques such as shader-baking

PROJECTS

Haptiverse (team of 3)

June 2021

Worked on revamping the Haptiverse platform for sharing and storing Haptic data (a project in the Haptic Computing Lab at UWaterloo). In particular, worked on migrating the database from Firebase to MongoDB for higher scalability and reworked the front-end using React.js and Chakra-UI.

Big Two (individual)

December 2020

Created a Java GUI-based multiplayer game for the popular Big Two card game (variant of Poker), with a fully interactive GUI using the Swing library, 4-player multiplayer functionality using Sockets and custom message-handling and a text-chat feature to allow players to chat during gameplay.

Astrid Crisis (individual)

May 2020

Created a text-based space shooter reminiscent of Galaga using the ncurses library in C++. Implemented object-oriented design, core game logic as well as graphical components.

HACKATHONS

CuseHacks - Syracuse University

February 2021

Winner

Implemented a CNN-based image classifier to assist users with basic cooking tasks that people often get stuck on. For the prototype, I implemented the CNN for judging whether onions had been properly fried or not, since frying onions is such a common task in various cuisines.

Google Travel and Voice Hackathon

September 2019

Runner-Up

Designed a prototype for Columbus, a Google Assistant-based app that allows users to efficiently plan trips and daily itineraries by simply specifying their location. Columbus uses location data and the Google Maps API to obtain information such as popular locations and peak hours to recommend places to visit.