

Ahzam Ahmad

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Education & Awards

University of Alberta

BSc Computer Science w/ Specialization

Graduated: May 2020

- Dean's List 2019-2020
- Certificate in Computer Game Development

Work Experience

Microserve

Desktop Deployment Tech

May 2018 - Aug 2020

Edmonton, AB

- Renovating computer systems across MacEwan University and Edmonton Public Libraries.
- Handling and organizing surplus inventory using spreadsheets.
- Imaging systems before deployment as well as wiping computer drives using KVM switches.

Lister Hall Students Association

Floor Coordinator

Aug 2017 - May 2018

Edmonton, AB

- Organizing large scale events for upwards of 1000 students in a cohesive team environment.
- Communicating with students in a personal and large scale for academic and mental reasons. g

Projects

Canada NeuroTech Dashboard & Mobile Application *HTML, CSS, MySQL, JavaScript, PHP, Apache*

- Developed a HTML/CSS/Js dashboard alongside an API utilizing REST principles with PHP.
- Mobile application used the MUSE3 Headband to record brainwaves during app use, which is then sent to the dashboard using API calls and extensive compression.
- Employed Unity to create a simple game, to see how a child with autism differs in brain waves compared to those unaffected.

Facial Feature Tracking and Translation *Python, Blender, Machine Learning*

- Allows a user to translate a video into a full set of animated points in Blender with only a camera.
- Tracking of facial features was completed using a pre-trained neural network using the Dlib python module alongside the imutils and the OpenCV modules.
- Points are stored in a .CSV format, which are then imported and animated in blender using another python script.

StarCraft II Bot *C++, Blizzard API*

- Created a competitive bot in C++ which utilized an aggressive 3 Barracks Terran Rush strategy.
- Utilized Finite-state-machine type stages to structure the program, enabling us to correctly employ the API's game loop system to control our units.
- Performed extremely well in areas such as target selection, kiting, and retreating at times of weakness.

Symptomatic *Java, MySQL, Android*

- Created an android app, which served as a medium for communication between patients and their doctors.
- Wrote multiple super classes from which many child classes branched, as well as the communication system which allowed for both images and text.
- Abstracted database communication into a function, enabling any part of the app to easily load/save data into the database, given the right information.

Technical Skills

Languages: Python, C++, Java, JavaScript, C#, HTML/CSS

Tools: Node.js, React, Android, SQL, Apache, Photoshop