Dilpreet S. Chana

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WORK EXPERIENCE

OPTIMOTIVE TECHNOLOGIES | Software Engineer
August 2016 - Present | Windsor ON

Optimotive Technologies is a tech startup building innovative automotive applications. Optimotive is focused on developing vision technology for the interior of a car.

- Created camera technology for vehicle interiors that allows the car to know what is happening within the cabin.
- Collaborated with a development team of 4 to complete projects using **OpenCV**.
- Winner of the EPICenter accelerator best tech startup award out of 12 startups.
- Completed tasks using the scrum development ideology.

ARTEMIS ENGINE | Full Stack Developer
July 2015 - May 2016

Artemis is a modern cross-platform 2D game engine.

- Developed Artemis Engine in **C#** using **Monogame/XNA** libraries in **Visual Studio**.
- Implemented unique flow control objects allowing users to create a multi-page application with great efficiency.
- Designed to allow users to focus on developing game ideas rather than code.
- Developed a simplified method of game animation and graphical augmentation.

PROJECTS

WINGBOT | https://github.com/EricPickup/WingBot
Hack the Valley 2018

Profiling tool made with **Python/Node.js** that scrapes info from social media profiles using the **Tweepy/Twitter API**

- Developed real time machine learning algorithms to identify different people in pictures using **computer vision**.
- Implemented the **Google API** for natural language processing of tweets to determine the levels of emotion and interests.

TWITTER CHESS | https://github.com/DSchana/Twitter-Chess
U of T Hacks 2017

Chess bot on twitter built using **Python**

- Implemented the **Tweepy/Twitter API** to listen for game related requests.
- Hosted bot on an **AWS server** to allow for higher levels of up-time.

PREFERENCE | https://github.com/Optimotive/Preference
June 2016 - August 2016

The preference system recognizes the user's face and outputs all preferences (seats, radio, etc.) in the car.

- Designed the Preference system in **C++** using **OpenCV** libraries.
- Implemented custom facial recognition algorithms with 80% accurate recognition.
- Engineered custom **PCBs** and electrical systems to bypass the car's central computer.

EDUCATION

UNIVERSITY OF WINDSOR | Honours Computer Science with Co-op and Minor in Mathematics
Sept. 2016 - Present | Expected 2020 | Windsor ON.
Major Average: 85.75

EXTRA CURRICULAR

COMPUTER SCIENCE GAMES

- Participated in the annual CS Games in 2017 and 2018.
- Competed in challenges from various disciplines of computer science including **artificial intelligence** and **theoretical computer science**.
- Achieved first place in the **A.I.** event and third in **Web Development**.

REFERENCES AVAILABLE UPON REQUEST