# Dilpreet S. Chana

http://dschana.github.io/dschana6@gmail.com | 226.345.0227

# **EDUCATION**

# **UNIVERSITY OF WINDSOR**

Honours Computer Science Expected 2020 | Windsor, ON

# LINKS

Github:// DSchana LinkedIn:// dschana Twitter:// @dschana2

# **SKILLS**

## **PROGRAMMING LANGUAGES**

Java • Bash • Python • C++ • Swift • Objective-C • C • C#

# INTERESTS

### **COMPUTER SCIENCE**

Artificial Intelligence • Computer Vision • Graph Theory • Robotics • Microprocessors • Algorithmic Problem Solving • Optimization

#### **MATHEMATICS**

Linear Algebra • Matrix Theory •
Differential Calculus • Discrete
Mathematics • Control Theory • Game
Theory • Euclidean Geometry •
Projective Geometry

# COMPETITIONS

# **PROGRAMMING**

2015-2016 CCC 2015-2016 ECOO

#### **MATHEMATICS**

C
Gauss
Pascal
Fryer
Cayley
Galois
Fermat
Hypatia
Euclid
CSIMC

# **EXPERIENCE**

# **FIRST ROBOTICS** | Software Engineering Division Leader & Mentor

Sept. 2013 - June 2016 | Honourable Vincent Massey S.S.

- Created an OpenCV program to track and lock onto a target in real-time.
- Taught a new generation of developers how to program with C++, Java and OpenCV.
- Won the Windsor regional competition and competed at the international level.

# **WEST OF WINDSOR INC.** | ADMIN ASSISTANT

Summer 2014 | Windsor, ON

- Developed an iOS app to allow users quick access to the company resources.
- Assisted in office activities.

# CANADA SOUTH SCIENCE CENTRE | TECHNICAL SUPPORT /

#### **CUSTOMER RELATIONS**

July 2012 - July 2015 | Windsor ON

- Developed an iOS app to allow users quick access to maps and information of the facility, along with the option to book tours and parties.
- Greeted and directed visitors, answered phone calls using excellent communication skills.
- Assisted and lead in technical areas for regular maintenance of the centre.

# **PROJECTS**

#### HARRY POTTER: NEW HORIZONS |

HTTPS://GITHUB.COM/DSCHANA/FINAL-PROJECT-11

Grade 11 Final Project

- Top down partial remake of Harry Potter Chamber of Secrets for Gameboy Colour in python 3.
- Used object-oriented design to optimize and organize program flow.

#### **ARTEMIS GAME ENGINE |**

#### HTTPS://GITHUB.COM/ARTEMISENGINE/ARTEMIS-ENGINE

- Artemis is a modern cross-platform 2D game engine designed on top of Monogame/Xna.
- The engine implemented unique flow control objects that allowed users to create a multi-page application with great efficiency.

## INVOICE | HTTPS://GITHUB.COM/DSCHANA/INVOICE

- Invoice system developed with the Artemis Game Engine.
- Introduced clean UIElements for easy user experience.
- Developed for Interstate Truck Centre; a truck repair shop in Windsor.

# HONOURS & AWARDS

2015	Winner	FIRST Robotics Regional Competition
2015	Finalist	FIRST Robotics Worlds Competition
2015	Top 25%	Canadian Computing Competition
2017	Llanarusa	Lliala Calagal Cuandunation

2016 Honours High School Graduation2016 Ontario Scholar High School Graduation