Dilpreet S. Chana

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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

2010-2011	Gauss
2012	Pascal
2013	Fryer
2013	Cayley
2014	Galois
2014	Fermat
2015	Hypatia
2015-2016	Euclid
2015-2016	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.

FRC STRONGHOLD TARGET FINDER

HTTPS://GITHUB.COM/DSCHANA/FRC-TARGET-FINDER

- Find and track the target in a high speed game of FIRST Robotics.
- Used real-time image processing to isolate a target pattern in a scene.

HONOURS & AWARDS

2015	Winner	FIRST Robotics Regional Competition
2015	Finalist	FIRST Robotics Worlds Competition
2015	Top 25%	Canadian Computing Competition
2017	Llangues	High Cohool Craduation

2016 Honours High School Graduation 2016 Ontario Scholar High School Graduation