Jayant Tiwari

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OVERVIEW

- Aspiring to be **Full-stack developer**, **AI specialist** and **Computer vision** expert

- Extensive experience with various **MVC** frameworks such as **ASP.NET**

- Years of experience developing on desktop and mobile platforms

- Proven understanding of Machine learning and Computer vision through courses and projects

EXPERIENCE

SpringBoard, Mississauga — *iOS Developer*

September 2015–December 2015

- Developed and presented prototype to clientele, securing **$30,000** to company

- Designed database in **SQLite** and create **ORM** using Entity framework in C#

- Parsed and reported financial PDF files using **regex** and **ASP.NET**

- Utilized **Google Map API** on iOS for real-time location tracking

- Consulted with clientele on creating sustainable project timeline

University of Waterloo, Waterloo — *Junior Technician*

January 2015–May 2015

- Developed Android application to track service usage throughout campus

- Parsed data from SQLite to MySQL local database using Python and provided analytics in PHP web-app

PROJECTS

Image Processing: Path Detection

- Detect all paths on image from point A to B using OpenCV libraries

- Utilized hue tracking and extracted contours for path detection

Hack the North: WaTree

- Designed 'Snapchat for trees', Geo-tag broken/dying trees for hackathon
- Implemented **Google Maps API** and **Facebook API** on Android platform

Face Detection API

- Implemented **OpenCV** libraries to detect face, and return location using JSON

- Developed using web2py framework in Python

Arduino Quadcopter

- Controlled Quadcopter from Android device by utilizing Arduino as transmitter using Bluetooth

- Stored pre-programmed flight path onto Arduino flash memory, allowing easier maneuver

SKILLS

Languages:

C#	● ● ● ● ●
Java	● ● ● ●
Python	● ● ● ● ●
JavaScript	● ● ● ●
HTML/CSS3	● ● ● ● ●
Objective-C	● ● ●

Databases:

MySQL, SQLite, SQL

Frameworks:

.NET, iOS, Android, Entity, Django, web2py, OpenCV, OpenGL, WebGl, Processing, ASP.NET

Tools:

Git, Mercurial, SVN, Microsoft Azure, regex, Selenium

ACTIVITIES

UW-Aerial Robotics

Contributed to development of mesh network using dynamic port-forwarding with XBee

EDUCATION

Machine Learning (Stanford online)

Identified and applied various learning techniques such as supervised and unsupervised learning

Embedded design

Explored fundamentals of software designs applied to industry

Algorithm and Data Structure

Implemented and analyzed efficiencies of various data structures and path finding algorithms

B.ASc in Computer Engineering

Expected graduation in 2019

IT Certification (Comptia A+)

Certified computer technician