

TOMMY DENG

EDUCATION

UNIVERSITY OF OTTAWA

BASc Software Engineering

2nd Year - Expected Dec 2021

CGPA: 9.2/10 (Dean's Honour List)

CONTACT

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LINKS

tommydeng.com

github.com/sttic

linkedin.com/in/tommydeng

SKILLS

Languages

Python • Java • C++ • C • C#
JavaScript • TypeScript

Libraries

OpenCV • Numpy • Selenium
Keras • PyAutoGUI • Pillow
Robot Framework

Technologies

Vue • React • NodeJS • Express
MongoDB • Laravel • Django

HTML • CSS • LaTeX • Markdown
Virtual Machines • Linux • Git
VS Code • Visual Studio • Eclipse
Android Studio • Unity 3D
Blender • Adobe CC

Development

Agile • CI • VC • UML
Data Structures & Algorithms
Object Oriented Design

HACKATHONS

2018	Hack Western
2018	Hack the North
2018	CU Hacks
2018	UOttHack

AWARDS

2018	Merit Scholarship
2017	\$4000 Admission Scholarship

INTERESTS

Computer Vision • Data Science
Robotics • Machine Learning
Web Development

WORK EXPERIENCE

ROSS VIDEO | SOFTWARE DEVELOPER

Jan 2019 – Present | Ottawa, ON

- Automated testing of products with Robot Framework and Selenium
- Added functionality to internally developed automation tool using Java
- Fixed bugs in Python scripts used for launching and monitoring test processes

GLOBAL AFFAIRS CANADA | SOFTWARE QUALITY CONTROL

May 2018 – Aug 2018 | Ottawa, ON

- Read and followed system design diagrams for the EICS II project
- Became proficient in Microsoft Test Manager and Team Foundation Server for executing quality control tests
- Trained consultants on toolset usage, testing workflow, and system requirements

ADDITIONAL EXPERIENCE

INVENTURE ACCELERATOR | FRONT-END DEVELOPER

Jan 2018 – Present | Ottawa, ON

- Designed and deployed company website (meetinventure.com) using Vue.js
- Organized the four-hour SparkFest 2018 event with the Inventure team
- Created SparkFest sponsor video featuring Google and Invest Ottawa

OTTABOTICS ROBOT RACING | ROBOTICS COMPETITION TEAM

Sept 2017 – Present | Ottawa, ON

- Automated Blender with Python to render photorealistic videos of racing tracks for use as training data and driving simulation for autonomous vehicle
- Created vision system to detect traffic lights and undistort wide-angle images
- Developed compression system to reduce bandwidth usage in video streaming

PROJECTS

INSTA EATS Hack Western, London | Nov 2018

- Developed web service that provides tailored restaurant recommendations based on the user's Instagram photos using React and Google Vision API

GET A GOOSE Hack the North, Waterloo | Sept 2018

- Constructed speech-to-text captioning system that broadcasts parsed speech from Android app to website using Google Voice API and Firebase database

IMAGE CLASSIFIER Personal Project | Sept 2018

- Applied Keras TensorFlow API to design and train a neural network to classify images of handwritten digits with >98% accuracy

OBJECT DETECTION Personal Project | July 2018

- Adapted YOLOv3 object detection system to localize common road objects

HQ TRIVIA BOT Personal Project | May 2018

- Automated Google search and parsing for "HQ" Trivia using Selenium

TIC TAC VOICE UOttHack, Ottawa | Feb 2018

- Built an accessibility mobile app aimed towards the visually impaired using Android Studio and Google Voice API

LIFE'S CHARGE VISUALIZATION Personal Project | Aug 2017

- Generated animated graphic representing a typical lifespan using CImg in C++

POTATO SIMULATOR ICS3U | Jun 2016

- Designed Unity 3D game in C# about a personified potato roaming around an open world

Please see tommydeng.com for projects