TOMMY DENG

EDUCATION

UNIVERSITY OF OTTAWA
BASc Software Engineering
2nd Year - Expected Dec 2021
CGPA: 9.2/10 (Dean's Honour List)

CONTACT

contact@tommydeng.com

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

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

HACKATHONS

2019 UOttaHack
2019 ConUHacks
2018 Hack Western
2018 Hack the North
2018 CU Hacks
2018 UOttaHack

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
- Resolved errors in 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 UOttaHack, 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++
- Gathered over 100,000 views after posting project in data visualization group

POTATO SIMULATOR ICS3U | Jun 2016
- Designed Unity 3D game in C# about a personified potato roaming the world

Please see **tommydeng.com** for projects