

# TOMMY DENG

✉ contact@tommydeng.com  
🌐 tommydeng.com  
🐙 github.com/sttic  
in linkedin.com/in/tommydeng

## EDUCATION

**University of Ottawa**  
BASc Software Engineering  
3rd Year - Expected Jun 2022  
GPA: 3.9/4.0 (Dean's Honour List)

## SKILLS

**Languages**  
Python • JavaScript • Java

**Technologies**  
GCP • AWS • Azure  
Vue • React • React Native  
NodeJS • Express • MongoDB  
Django • Flask • Firebase

HTML • CSS • Bootstrap  
Virtual Machines • Linux • Bash  
Git • SVN • Jira • GitHub  
VS Code • Visual Studio • Eclipse

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

## HACKATHONS

2019	Hack the North
2019	Hack The 6ix
2019	UOttHack
2019	ConUHacks
2018	Hack Western
2018	Hack the North
2018	CU Hacks
2018	UOttHack

## AWARDS

Merit Scholarship (×3)  
\$4000 Admission Scholarship

## INTERESTS

Project Management  
Machine Learning • Data Science  
Web Development

## WORK EXPERIENCE

### Kinaxis

#### Analytics Software Developer

Ottawa, ON

Sept 2019 – Dec 2019

- Implemented dynamic color algorithm based on W3C web standards equations to provide optimal visibility of network visualization node shape icons
- Built performant and interactive visualizations using D3, Highcharts, and Viz.js
- Worked closely with senior developers on feature development and bug fixes
- Collaborated with agile team members and other stakeholders to conceptualize and prototype the product's next-gen visualization capabilities

### Ross Video

#### Automation Software Developer | R&D Operations

Ottawa, ON

Jan 2019 – Apr 2019

- Streamlined testing of camera control system with Robot Framework overhaul to provide a >2 times speed improvement in test execution
- Added functionalities to internally developed Java-based automation libraries to allow testing of previously blocked video control and monitoring features
- Provided training on automation framework usage for Swing/Eclipse applications
- Created and maintained regularly used environment setup and utility scripts

### Global Affairs Canada

#### Software Quality Control Analyst

Ottawa, ON

May 2018 – Aug 2018

- Read and followed system diagrams for the Export Import Control System project
- Used Microsoft Test Manager and Team Foundation Server for executing quality control tests and achieved 100% coverage for each testing cycle
- Trained consultants on toolset usage, testing workflow, and system requirements

## ADDITIONAL EXPERIENCE

### Inventure Accelerator

#### Front-end Developer & Media Producer

Ottawa, ON

Jan 2018 – Present

- Designed and deployed startup website ([meetinventure.com](https://meetinventure.com)) using Vue and Netlify to promote sponsorship, event outreach, and media attention
- Organized the four-hour, 80 attendee, SparkFest 2018 event with Inventure team
- Created SparkFest sponsor video featuring Google and Invest Ottawa

### Ottabotics Robot Racing

#### Robotics Competition Team

Ottawa, ON

Sept 2017 – Dec 2018

- 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

### Bark Buddies UI Design Course Group Project

Summer 2019

- Collaborated with team to build mobile app that connects dogs to other dogs
- Used React Native to create a high-fidelity prototype with navigation to all screens
- Implemented field response, Tinder-style swiping, and persistent messaging system

### Life's Charge Visualization Personal Project

Aug 2017

- Generated animated graphic representing a typical lifespan using Clmg in C++
- Gathered over 100,000 views after posting project in data visualization group
- Ported concept to dynamic website that generates customized images using PixiJS

### Potato Simulator Computer Studies Course Summative

Jun 2016

- Designed Unity 3D game in C# about a personified potato roaming the world
- Won subject award for the course as a result of the project and related work

Please see [tommydeng.com](https://tommydeng.com) for projects