

TOMMY DENG

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

EDUCATION

University of Ottawa
BASC Software Engineering
2017 - 2022 • GPA: 3.9/4.0

SKILLS

LANGUAGES

Python	Java
JavaScript	TypeScript
HTML	CSS

TECHNOLOGIES

React	React Native
Vue	NodeJS
Express	MongoDB
Jest	Selenium
GCP	Firebase
AWS	Heroku
Git	SVN
Jira	Docker
Linux	Bash
Eclipse	Visual Studio

DEVELOPMENT

Agile	CI
TDD	UML

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

INTERESTS

Project Management
Machine Learning • Data Science
Web Development • Design

WORK EXPERIENCE

Kinaxis Analytics Software Developer

Sep - Dec 2019

- Simplified and reduced a **React** / **TypeScript** module's lines of code by ~50%, while adding functionality, by redesigning algorithm to use stack and hash-map structure
- Implemented dynamic color algorithm based on W3C web standards equations with **D3** and **Cytoscape** to provide optimal visibility of network visualization nodes
- Followed test-driven development using **Selenium** and **Jest** to produce effective front-end visualization features, UI enhancements, and bug fixes
- Collaborated with agile team members and other stakeholders to conceptualize and prototype next generation product capabilities

Ross Video Automation Software Developer

Jan - Apr 2019

- Streamlined testing of camera control system with Robot Framework to increase **Jenkins** test suite execution speed by >200% and enable headless operation
- Added functionalities to internally developed automation libraries using **Java** to allow testing of previously blocked video control and monitoring features
- Provided training on automation framework usage for **Swing** / **Eclipse** applications
- Created automated **Python** and **Bash** environment setup and utility scripts

Global Affairs Canada Software QA Analyst

May - Aug 2018

- Interpreted system and navigation diagrams for the Export Import Control System
- Achieved 100% coverage for each testing cycle with use of Microsoft Test Manager
- Trained consultants on toolset usage, testing workflow, and system requirements

ADDITIONAL EXPERIENCE

Inventure Accelerator Front-end Developer

Jan 2018 - Present

- Contributed to raising over \$4000, receiving article mentions, and gathering 80 attendees for an event by developing startup website using **Vue** and **Netlify**
- Collaborated with Google and Invest Ottawa to create event sponsor video

Ottabotics Robotics Competition Team

Sep 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 **OpenCV** system to detect traffic lights and undistort wide-angle images
- Developed compression pipeline to reduce live video streaming bandwidth by 20%

PROJECTS

Bark Buddies

May - Jul 2019

- Collaborated with team to build mobile app that connects dogs to other dogs using **React Native** to achieve a high-fidelity prototype with effective UI/UX design
- Implemented field response, Tinder-style swiping, and persistent messaging system

Life's Charge Visualization

Aug 2017

- Gathered over 100,000 views in a popular data visualization group through generating animated graphic representing a typical lifespan using **Clmg** in **C++**
- Ported concept to dynamic website that generates customized images using **PixiJS**

Potato Simulator

Jun 2016

- Won award out of >50 people for building an interactive physics-based **Unity** 3D game in **C#** about a personified potato roaming an open world

Please see tommydeng.com for projects