

TOMMY DENG

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EDUCATION

University of Ottawa
Software Engineering
2017 - 2021 • GPA: 3.9/4.0

SKILLS

LANGUAGES

Python	Java
JavaScript	TypeScript
HTML	CSS

TECHNOLOGIES

React	Vue
Next.js	NodeJS
PostgreSQL	Express
Jest	Selenium
GCP	Firebase
AWS	Docker
Git	Jira
Linux	Bash
Visual Studio	Eclipse

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	cuHacking
2018	uOttHack

INTERESTS

Data Visualization • Design
Project Management • Web

Penny Boarding • Cats
K-Pop • Speed Cubing

WORK EXPERIENCE

Bank of Montreal Capital Markets Developer

May - Aug 2020

- Revealed winning metric-driven strategies for increasing revenue by up to 5% by analyzing client/sales data, using **Python + Excel** visualizations, in a pitch competition
- Improved efficiency and profitability of in-house trading tools by developing key trader-requested features using **ASP.NET MVC** in **C#**
- Reduced Oracle **SQL** database calls by 75% by implementing server-side caching policy

Kinaxis Analytics Software Developer

Sep - Dec 2019

- Dramatically accelerated product timeline to meet target release date by producing above-average >15 user-facing visualization and UI/UX features in **React-TypeScript**, while following test-driven development using **Selenium** and **Jest**
- Enhanced product design by integrating feedback from client and domain expert demos

Ross Video Automation Software Developer

Jan - Apr 2019

- Increased **Jenkins** test suite execution speeds by >200% and enabled reliable headless operation by overhauling continuous integration process with Robot Framework
- Allowed testing of previously blocked video control and monitoring features by adding key functionalities to internally developed automation libraries using **Java**

Global Affairs Canada Software QA Analyst

May - Aug 2018

- Surpassed QA targets and achieved 100% coverage for each testing cycle
- Trained consultants on toolset usage, testing workflow, and system requirements

LEADERSHIP EXPERIENCE

CUSEC Director of Technology & Design

Apr 2020 - Present

- Attracted sponsors and attendees by designing a modern brand identity to reach a broader audience and follow web standards, using **Figma** and **React**
- Conducted cross-team design and product demos to gather and satisfy user needs

uOttHack Developer Team Lead

Nov 2019 - Present

- Served and collected hackathon registration data from thousands of users by effectively collaborating with developers in creating multiple attendee-facing apps using **React**, **Next.js**, and **Firebase** (landing page, application portal, and live schedule)

Inventure Accelerator Technology & Media Lead

Jan 2018 - Dec 2019

- Raised over \$4000, received article mentions, and gathered 80 attendees for a networking event by developing and marketing startup website using **Vue** and **Netlify**
- Collaborated with Google and Invest Ottawa to create keynote event sponsor video

Ottabotics Robotics Competition Team

Sep 2017 - Dec 2018

- Saved weeks of manual work by generating photorealistic road imagery renderings for autonomous vehicle training data/simulation using **Blender**, **Python**, and **OpenCV**

PROJECTS

Life's Charge Visualization

Aug 2017

- Received over 100,000 views in a popular data visualization group by creating an original animation, representing a typical human lifespan, using **Clmg** in **C++**

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