

TOMMY DENG

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EDUCATION

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

SKILLS

TEAMWORK

Communication Agile
Problem-solving Ownership
User-centered Inventive

LANGUAGES

Python Java
C++ JavaScript
TypeScript HTML/CSS

TECHNOLOGIES

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

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

Amazon Web Services (AWS) SDE Intern

May - Aug 2021

- Enhanced discoverability of cloud resources by implementing metadata additions across **Lambda API**, **CloudFormation**, and **React UI** in **Java** and **TypeScript**
- Enabled advanced querying and 10x faster search times by replicating database to **Elasticsearch** using **DynamoDB Streams**, **SQS**, and **Lambda**

Bank of Montreal Capital Markets Developer Intern

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 Intern

Sep - Dec 2019

- Dramatically accelerated product timeline to meet release by developing above-average >15 user-facing visualization and UI/UX features in **React**, **TypeScript**, **D3.js**, and **Cytoscape** while following test-driven development using **Selenium** and **Jest**
- Enhanced product design by integrating feedback from client and domain experts

Ross Video Automation Software Developer Intern

Jan - Apr 2019

- Increased **Jenkins** test suite execution speeds by >200% and enabled reliable headless operation by overhauling the 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**

VOLUNTEER EXPERIENCE

CUSEC Director of Technology & Design

Apr 2020 - Jan 2021

- Attracted sponsors and attendees by designing a modern brand identity to reach an international audience of >1000 users, using **Figma**, **Next.js**, and **Chakra UI**

uOttHack Developer Team Lead

Nov 2019 - Feb 2021

- 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**

PERSONAL 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