

Tahmid Tamim

Technologist, Software Developer, Solutions Engineer

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/h7474

Education

University of Waterloo

BASc Computer Engineering; Graduated with Distinction; GPA: 80%

2014 – 2019

Waterloo, ON

Experience

Bluescape

Software Engineer - Full-time

Sep. 2022 – Feb. 2023

Toronto, ON

- > Port backend auth services to OAUTH 2.0. Upgrade graphql-gateway to patch security vulnerabilities.

Northbridge Financial Corp.

Associate Data Scientist - Full-time

Sep. 2019 – Apr. 2022

Toronto, ON

- > Deployed data science models in claims/underwriting in production generating over \$10m value annually.

Scotiabank

Pricing Scientist - Co-op

Sep. 2018 – Dec. 2018

Toronto, ON

- > Collating external data from Google, data mining to discover latest trends in Toronto neighborhoods.

DST Systems

R&D Developer - Co-op

Jan. 2018 – Apr. 2018

Toronto, ON

- > Deployed a convolutional neural network to select and crop out ROIs (Regions of Interest) from images.
- > Built an end-to-end in-house image annotation tool. Re-engineered web image annotation tool with Flask to safely prepare training/validation datasets for deep learning models. Built secure Flask backend to serve censored images to frontend, enabled real-time image annotating, saved to on-prem MySQL database.
- > Developed a 2D animated sprite game with AngularJS, Canvas, CreateJS libraries for a charity event. Game raised over \$8000 for Make-A-Wish Foundation, funds donated to children suffering from critical illness.

David R. Cheriton School of Computer Science (uWaterloo)

Undergraduate Research Assistant - Research Award

May. 2017 – Aug. 2017

Waterloo, ON

- > Sum Product Networks - Built a discriminative gradient-descent module with PyTorch. Collab with graduate researchers to develop test cases for SPN library. Documented testing, edge-cases with Graphviz.

eSentire Inc.

R&D Developer - Co-op

Sep. 2016 – Dec. 2016

Cambridge, ON

- > Developed test cases w/ Mocha and Chai. Enabled CI builds/testing with Jenkins. Resolved backend scalability issues, routing lags. Enabled new routes to React app to serve new microservices/RESTful APIs.
- > Developed a PoC with Amazon Kinesis Streams to ingest cyber threat intel from 30+ publishers. PoC rolls back dependency on DynamoDB, cuts middleman, ensures fault-tolerant data intake, & significantly cut costs.

TELUS Health

Software Developer - Co-op

Jan. 2016 – Apr. 2016

Cambridge, ON

- > QA Automation - cross-platform GUI testing for an EMR desktop app with Squish GUI Tester. Mounted new test cases (Python) on Robot Framework. Improved code coverage and streamlined test feedback with Jenkins.

Institute for Quantum Computing (uWaterloo)

Undergraduate Research Assistant - Co-op & Research Award

May. 2015 – Aug. 2015

Waterloo, ON

- > Hardware - PCB designing, printing and testing for a custom laser shutter. 3-D designing and printing a plastic receptacle for laser shutter. Machined aluminum containers and components to support lab experiments.

Skills and Interests

Languages: C/C++, Typescript, Python, Rust, SQL

Libraries: OpenCV, Pandas, Scikit-learn, GraphQL

DevOps: Git, Docker, Jenkins, Jira, Prometheus

Environments: AWS, Linux, Mac, Jupyter, VS Code, Vim

Frameworks: Flask, FastAPI, Express, Node, Nest, React

Specializations: Data Science, Microservices, Backend