250 Humber College Blvd.,

Toronto, ON M5A 3JL7

**EMPLOYMENT**

**Jane Doe**

(416) 111-2222 Jane.dow@gmail.com

Git hub Link

LinkedIn Link

Software Engineer, Intern Objectivity May 2019 – September 2019

**IoT Development**

* Designed and coordinated a scalable multi-container solution
* Implemented flow-based programming interface for clients to rapidly prototype and modify properties to suit their needs
* Integrated IoT Technologies such as IBM-Bluemix Node-RED into common web technologies such as Flask, React and Nginx to create a pipeline to convert concurrent data into 3D geometry

**3D Development**

* Reduced time (over 50%) to generate complex 3D geometry by using vectorization
* Implemented method to calculate for intersection in point cloud in O(nlogn)
* Developed optimization algorithm to find fewest lines used to enclose the maximum volume in O(nlogn)
* Implemented method to find the shell of a point cloud by finding the convex hull and using smoothing techniques
* Architected the pipeline to manage, clean, visualize and interpret multivariable data

**Project Development**

* Developed and maintained unit-tests, continuous integration and E2E testing in Python and JavaScript
* Maintained API documentation with swagger.io endpoint

**EDUCATION**

Kingston, ON Queen’s University Fall 2017 – Present

B.S.E in Computer Engineering. Cumulative GPA: 3.88; Dean’s List

Undergraduate Coursework: Comp. Architecture; Object Oriented Programming; Data Structures and Algorithms; Operating Systems; Engineering Entrepreneurship

**TECHNICAL EXPERIENCE**

Projects

E-Commerce Website (2019): Built a direct manufacturer-to-consumer e-commerce platform. Redirect orders from e-commerce website to drop-shipping company using their API. (PHP, Apache, MySQL, AWS)

Finance Tracking Web App (2018): Developed a web-app to track QAC’s budget, a club totaling 50 members. Display responsive graph data to summarize financial prospects and history. (React.JS, React-Redux, Firebase) QAC Personal Website (2018): Created a personal website for QAC. Integrated Google Calendar and Kitsu.IO API; Updated asynchronously to prevent overcalling. (Django)

Predictive Metagame Algorithm (2018): Designed a machine-learning algorithm to predict the potential viability of certain characters in a competitive metagame. (Python, SciKit-Learn, Pandas, NumPy, Matplotlib)

**ADDITIONAL EXPERIENCE**

PyVista Contributor: Open-source 3D visualization toolkit; Improved 3D line geometry and tessellation filter.

NASA Space App Hackathon: Measured and analyzed sleep quality of astronaut’s based on homeostatic functions.

QAC Executive: Appointed as key executive member by securing partnerships with local companies in Kingston.

**Languages and Technologies**

Languages: Python; JavaScript; Java; C++; C; PHP

Front-End Frameworks: React.JS; Vue.JS; Bootstrap

Back-End Frameworks: Node.JS; Node-RED; Express; jQuery; Flask

3D Graphics: VTK; VTK.js; ParaView; PyVista; OpenGL 3.0+; WebGL

Toolchain: Git; Bash Scripting; Docker; Docker-Compose; Webpack