

Abdullah Sumbal

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EDUCATION

MCGILL UNIVERSITY | [SOFTWARE ENGINEERING \(GPA: 3.6 / 4.0\)](#)

2020 JANUARY

SKILLS

LANGUAGES

Python • Java • C • SQL • C++ • Bash • JavaScript • HTML • CSS

FRAMEWORK & LIBRARIES

Spring • Bootstrap • Node.js • Express.js • React • Flask • Scikit-learn • QT • VHDL • \LaTeX • TensorFlow • Logback

TOOLS

Git • Linux • Docker • OpenShift • Maven • Gradle • Jira • Firebase • CI/CD • Udeploy • Jenkins • TeamCity

EXPERIENCE & RESEARCH

SOFTWARE DEVELOPER - AVP | [CITI BANK](#)

MARCH 2020 - PRESENT

- Addressed priority production bugs and improvements in Java Spring Boot services.
- Containerized applications and automated build pipelines (CI/CD) using Jenkins and OpenShift.
- Managed employee training for all new recruits and offered continuous guidance and mentorship on best practices.

GIS WEB DEVELOPER | [IHSP](#)

JAN 2019 - APRIL 2021

- Optimized web services performance by 50% for lifesatisfaction.ca using open source technologies.
- Developed data load process to generate and host vector tiles for current and future projects.

RESEARCH ASSISTANT | [FACULTY OF MEDICINE](#)

MAY 2019 - AUG 2019

- Developed a prediction model to distinguish between various voice types using Machine Learning algorithms.
- Performed analysis on the impact of voice fatigue on running speech using a neck surface accelerometer.

SOFTWARE INTERN | [GENERAL ELECTRIC](#)

SEP 2016 - DEC 2017

- Improved team productivity by designing automation tools for regression testing.
- Discovered critical issues by redesigning the database validation system which prevented product recall.
- Developed tools to aid the team in visualizing the communication tree between nodes.

PROJECTS

BATTERY DATA ANALYSIS

[PYTHON](#) | [PYQT](#)

- Developed data analysis plotting tools for the Chemistry Department at McGill University which will aid in chemical battery research for the next *20 years*.
- Designed an interface which allows data communication between a pH meter and the experiment apparatus.

3D VISUALIZATION OF HUMAN SPINE

[PYTHON](#) | [PYQT](#)

- Developed a desktop application for rendering the human spine by combining X-Ray, MRI and surface topography to facilitate in surgery.

REMOTE PC SHUTDOWN AUTOMATION

[PYTHON](#) | [REACT](#) | [AUTHENTICATION](#)

- Developed an application to remotely shutdown using Firebase services and Python QT application

SSD TRACKER

[C++](#) | [CAFFE](#)

- Developed an application to count, detect and track objects in a video stream in real-time running at *30 frames/sec* using single shot multi-box detector deep learning algorithm.