

# GAGANDEEP SINGH MULTANI










FULL-STACK DEVELOPER



## SUMMARY

An experienced web developer who has hands-on experience in developing web applications using varieties of tools and frameworks. Successfully delivered tasks by following software development methodology and best practices while working in a team environment. Supportive and enthusiastic team player dedicated to streamlining processes and effectively resolve project issues.

## PERSONAL INFORMATION

-  **Phone**  
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gsmultani11@gmail.com
-  **Address**  
Yverdon-les-Bains, Switzerland
-  **Date of Birth**  
11/ 12/ 1992
-  **Work Authorization**  
Permit B
-  **Nationality**  
Canadian and Indian
-  **Marital Status**  
Married
-  **GitHub**  
[www.github.com/GaganSingh11](https://www.github.com/GaganSingh11)
-  **Website**  
[www.linkedin.com/in/gagan-multani/](https://www.linkedin.com/in/gagan-multani/)

## TECH LANGUAGES

- Python
- JavaScript
- Nodejs
- HTML5
- CSS3, Sass

## FRAMEWORKS

- Django, Django REST
- Flask
- React, Tailwind CSS

## EXPERIENCE

### PYTHON DEVELOPER (IOT)

Samco Machinery / Toronto, Canada / Oct 2020 – Nov 2021

- Developed and Designed the Front-end side of the Industrial IoT dashboard application using Plotly Dash python library.
- Worked with Flask, a python-based web framework to handle back-end tasks and delivered web application using MVC standard with the integration of RESTful APIs.
- Worked with storage systems like PostgreSQL and SQLite for storing user credentials and machine sensor data.
- Written ETL scripts to extract data from sensors that are sensing pressure, temperature, and oil density data from multiple systems of roll forming machine and storing it in on-premises PostgreSQL database.
- GIT version control with the complex structure used to handle multiple long-running branches to handle final IoT application.
- Worked with manufacturing and electrical engineering experts, learned the business process and life cycle, and provided development ideas and strategies to solve the business problems.
- Trained and tested concept of Predictive Maintenance Modeling for industrial roll forming machines using TensorFlow allowing a reduction in unplanned downtime by up to 70% from weeks to days.
- Experienced working in Continuous Integration development practice.

### QUALITY ANALYST

Samco Machinery / Toronto, Canada / Mar 2016 – Nov 2021

- Worked with Quality, Engineering and Production teams in managing and monitoring the production and quality KPIs.
- Managed nonconformance, customer complaints, and implemented corrective and preventive measures as per ISO9001:2015 standards.
- Performed calibrations, process audits, machine capability analysis and product launch.
- Participated in continuous improvement and 5S initiatives.

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## LIBRARIES

- SQLAlchemy
- Plotly Dash
- Scikit-learn
- TensorFlow

## TOOLS

- Git
- GitHub
- Docker
- Visual Studio Code
- PostgreSQL

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## EDUCATION

POST GRADUATE DIPLOMA,  
BIG DATA ANALYTICS  
York University, Canada  
2019 – 2020

POST GRADUATE DIPLOMA,  
INDUSTRIAL ENGINEERING  
Lambton College, Canada  
2015 – 2016

BACHELOR OF ENGINEERING,  
MECHANICAL ENGINEERING  
Nagpur University, India  
2010 – 2014

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## CERTIFICATES

BOOTCAMP, WEB  
APPLICATION DEVELOPMENT  
Zero to Mastery Academy (Online)

CERTIFICATE, PYTHON  
PROGRAMMING  
Zero to Mastery Academy (Online)

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## LANGUAGES

- English – Native
- French – A1
- Hindi – Native
- Punjabi – Native

## QUALIFICATIONS AND SKILLS

- Developed Web APIs using Flask and wrote business logics for database transactions using SQLAlchemy ORM.
- Worked with full development pipeline by using tools like Git and GitHub, pre-commit hooks for maintaining the code quality.
- Familiar with Linux environments, basic commands and tools, and bash scripting.
- Knowledgeable of Algorithm design and analysis, Object-Oriented Programming and Methodology, Data Structure, Web Technologies, and Software Development Lifecycle methodologies such as Agile.
- Easily adaptable to new situations and work as required.
- Innovative, detail-oriented, self-confident, and hardworking.

## REFERENCES

References are available on request