

TARANJYOT SINGH

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PROFILE SUMMARY

Software Development Engineer with over 3 years of experience in development and optimization of applications and frameworks. Proficient in **Python**, **Django** and **REST API** architecture with a solid understanding of **CI/CD**, **AWS**, and **JavaScript**.

SKILLS

- **Concepts:** Object Oriented Programming, Data Structures, Software Engineering, Release management, Product management, Versioning, ETL Process.
- **Languages:** Python, JavaScript, HTML, Typescript, node.js, C++, Java, Groovy.
- **Software Applications:** VS Code, Vim, Docker desktop, PlayCanvas, Eclipse, Jupyter Notebook, SAS.
- **Operating Systems:** Linux, Windows, macOS.
- **Databases:** MySQL, NOSQL, MongoDB, ElasticSearch, PostgreSQL.
- **Platforms & Tools:** Git, Jenkins, Docker, Postman, Jira, Bitbucket, Confluence, Github.
- **Libraries & Frameworks:** BeautifulSoup, Pipenv, NumPy, Pandas, Regex, Mock etc.

WORK EXPERIENCE

Anuvu - Montreal, QC, Canada

June 2022 - May 2024

Software Development Engineer

- As a backend and framework developer in a team of 5, I led the initiative to implement a Jenkins CI/CD pipeline and automate the provisioning of AWS instances.
- Built modules for data transformation and analysis using SAS, Pandas, and Airflow, ensuring the efficient and effective use of data within our microservices.
- Contributed significantly to the development and unit testing of our 6 microservices, achieving 87% code coverage through extensive unit testing.
- Oversaw the official releases for 3 of the live products.
- Additionally, monitored testing for over 25 games on platforms like PlayCanvas, PixiJs.
- **Technical Stack:** Python, Pandas, Numpy, Pytest, REST, HTML5, JavaScript, Node.js, Git, OOP, Typescript, MySQL, AWS, DataBricks, Bash, BitBucket, CI/CD, Docker, Jcasc, Jenkins, Jira, Confluence, Groovy, Postman, SAS, SQL Server, Unit-Testing, Mock.

Solut Pvt. Ltd. - Calgary, Alberta, Canada

Feb. 2022 - May 2022

Software Development Engineer

- As a full-stack developer, I designed and implemented an interactive web application using Python-Flask for on-field agents.
- The application featured role-based authorization to manage over 1 million records, ensuring secure and efficient access.
- Collaborated with clients to gather their specific requirements and ensure the application met their needs. Additionally, I conducted unit testing using Pytest to guarantee the application's reliability and functionality.
- **Technical Stack:** Python, Pandas, Flask, Jupyter Notebook, PyCharm Libraries, Azure Database, MySQL, NoSQL, Git, Github, CI/CD pipelines, Javascript, JQuery, HTML, Pytest.

Kyrion Technologies - New Delhi, India

May 2018 - Dec. 2018

Software Development Intern

- Developed an artificial intelligence system for improving handwritten digit recognition.
- As part of a software development team, I developed a Python application using OpenCV to train a model on a

- dataset of 500 handwritten digits.
- This system achieved a 90% accuracy rate, significantly enhancing the efficiency of automated data entry processes.
- Technical Stack:** Windows 8, Pytest, Git, Jupyter Notebook, PyCharm Libraries, Postgres Database, OpenCV-3xx.jar.

Trip String - New Delhi, India

June 2017 - Jan. 2018

Software Development Intern

- Designed and implemented a travel website which utilized user input to automatically rank and present alternative trip packages based on the filters supplied by the user.
- Technical Stack:** HTML, CSS, JavaScript, WordPress, Windows 10.

EDUCATION

Master of Engineering in Quality System Engineering

Jan. 2020 - Oct. 2021

Concordia University, Montreal, QC, Canada

GPA: 3.3/4.3

Bachelor of Technology (Computer Science and Engineering)

Aug. 2015 - June 2019

Guru Gobind Singh Indraprastha University, Delhi, India

GPA: 7.8/9 - First Division with Distinction

PUBLICATIONS

RDBMS Analysis for Big Data using ElasticSearch

June 2019

[Vol. 7 Issue 2 \(Version 6\) \(i2or-ijrece.com\)](#)

IJRECE published a research paper on studying Big Data with ElasticSearch for quicker data access.

PROJECTS

Emotion Detection through Face Recognition | [TaranjyotS/FaceRecognition \(github.com\)](#)

- System architecture that employs machine learning and Artificial Intelligence analytics, with the Cohn-Kanade face expression database with 593 video sequences from 123 subjects serving as a training ground for the system.
- The algorithm analyzes one of the 6 fundamental emotions of a human face based on the face geometry collected by the system's video camera.

Optical Character Recognition (OCR) | [TaranjyotS/OCR \(github.com\)](#)

- It entails utilizing the Python programming language to recognize characters (single-digit numbers) and artificial intelligence principles (Numpy) to deliver 90 percent accurate results.

Design Improvement and Quality Control of Boeing 737 Max Aircraft |

[TaranjyotS/Design-Improvement-and-Quality-Control-of-Boeing-737-Max-Aircraft \(github.com\)](#)

- The primary goal of the study is to perform the root cause analysis of the Boeing 737 Max design's problems within the SDLC.
- From project inception (Correlation Analysis and VSM) and planning (DOE and SCM) through quality control and risk management, all phases were comprehensively presented to offer insights on the fundamental causes and enhance the system.

PROFESSIONAL TRAINING & CERTIFICATIONS

- Artificial Intelligence Certification** - (HPE certified) *WAC Institute [Project-OCR] - Delhi, India (06/2018)*
- Java/Android Development Certification** - *CMC Institute [Project-Women Safety Application] - India(06/2016)*