

Gulshan Sankhyan

SOFTWARE DEVELOPER · WEB DEVELOPER

Hamilton, Ontario, Canada

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Highlights of Qualifications

- Currently enrolled in the Master of Engineering Design program at McMaster University with an expected graduation date of August 2022
- Excellent communication, teamwork, and leadership skills developed through involvement in various design projects
- Effective organization, time management, and project management skills gained through completing a two year master's degree coursework in one year with a current GPA of 3.88 on a 4.0 scale.

Skills

Programming	JavaScript, Ruby, Node.js, Python, C, C++, C#, Unix/Linux Shell
Front-end	React, HTML5, CSS3, Flexbox, CSS Grid
Back-end	Express, Ruby on Rails, SQL, MongoDB, REST API
DevOps	AWS, Docker, GCP, Azure, Git, GitHub, Webpack
Machine Learning and AI	Keras, PyTorch, Tensorflow
Others	Figma, Unity
Languages	English, Hindi

Experience

ONGC (OIL AND NATURAL GAS CORPORATION of India)

Dehradun, India

SOFTWARE DEVELOPER INTERN

June 2019 - July 2019

- Developed a web application whereby employees can request/approve food and beverage requirements for office parties using C#, ASP.NET framework and MySQL adhering to the MVC design pattern
- GitHub Link: https://github.com/Gulshan1357/ONGC_hospitality

Projects

Predictive modelling tool to more effectively transition patients from hospital

St. Joseph's Healthcare Hamilton

DESIGN THINKING, MATLAB, JUPYTER NOTEBOOKS

January 2022 - August 2022 (Expected)

- The Hospital(SJHH) needs a tool which can predict the Alternate Level of Care(ALC) discharge destination for a patient and their length of stay in hospital
- In a group of three, currently analyzing how SJHH collects and stores the patient data, what is the discharge journey of a patient, and the key factors responsible for each particular ALC destination, through a series of interviews.

Study Buddy App

Degree Project

RUBY, RUBY ON RAILS, BOOTSTRAP

February - March 2022

- Developed a **Rails** Web Application where students can find a study partner, set up meetings and send messages
- Incorporated user **authentication and authorisation** from scratch
- Implemented multiple **API endpoints** which can be accessed using an API key
- Live at: <https://study-buddy-app-api.herokuapp.com/>
- GitHub Link: <https://github.com/Gulshan1357/study-buddy-app-api>

VR Whiteboard App

Degree Project

UNITY, C#

2022

- In a team of two, developed a Virtual Reality Application where users would be able to draw on a whiteboard in a virtual environment
- Awarded A+ grade for incorporating different kinds of markers and the ability to change colors in real-time
- GitHub Link: https://github.com/Gulshan1357/VR_Whiteboard

News App

Degree Project

RUBY, RUBY ON RAILS, BOOTSTRAP

February - March 2022

- Created a basic News app to put the learning of the Ruby on Rails into practice
- Programmed the application to **retrieve data from NewsAPI** and generate dynamic links for each article leading to a details page
- Live at: <https://fathomless-ocean-17429.herokuapp.com>
- GitHub Link: https://github.com/Gulshan1357/news_app

Human anatomy AR App

Degree Project

UNITY, C#

2022

- Developed a basic Augmented Reality Application to put the Unity Engine and C# scripting learning into practice
- Utilized **Vuforia Engine** so that human organs (currently heart and lungs) can be scanned using a camera and display its 3D model
- GitHub Link: <https://github.com/Gulshan1357/Human-Anatomy-UnityAR>

Re-imagining the consultation experience of patients in the emergency ward of SJHH

St. Joseph's Healthcare Hamilton

DESIGN THINKING, PROTOTYPING

2021

- Identified the pain points by empathizing with patients and defined the problem by conducting interviews with patients and advisors
- Brainstormed ideas and iterated prototypes based on the feedback, which earned positive comments from stakeholders as well as instructors

To-do React App

Personal Project

JAVASCRIPT, REACT, NODE.JS, MONGODB

2020

- Created a basic ToDo app to put the learnings of the React (front-end) framework and Node (Back-end) into practice
- Utilized MongoDB to retain information

Projects under CV Nanodegree from Udacity.com

Personal Project

PYTHON, TENSORFLOW, JUPYTER NOTEBOOKS

2019

- Facial Keypoint Detection: Developed a model using Computer Vision techniques and deep learning architectures to analyse any image, detect faces, and predict the locations of facial keypoints on each face
- Automatic Image Captioning: Combined CNN and RNN knowledge to build a network that automatically produces captions, given an input image

Education

MASTER'S IN ENGINEERING DESIGN

Ontario, Canada

MCMASTER UNIVERSITY

September 2021 - 2022 (Expected)

- Engineering Design with specialization in Product Design
- Relevant Courses
 - Project Management
 - Prototyping Web Applications
 - Augmented Reality & Virtual Reality
 - Data Analytics, ML & AI on Cloud Platforms
 - Practical Project Management for Today's Business Environment (Ongoing)

BACHELOR'S IN COMPUTER SCIENCE AND ENGINEERING

H.P., India

JAYPEE UNIVERSITY OF INFORMATION AND TECHNOLOGY (JUIT)

2016 - 2020

- Achieved an equivalent grade-point average of **3.3 on a 4.0** scale
- Relevant Courses
 - Data Structures and Algorithms
 - Object Oriented Programming
 - Deep Learning, Computer Vision
 - Database Management Systems

Leadership

Techstars Startup Weekend

H.P., India

JAYPEE UNIVERSITY

2019

- Led a team of 4 to brainstorm, develop, and pitch a business plan along with a prototype within 36 hours
- Proposed various marketing and network activities to raise awareness