Personal Information

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</> **GitHub**

👤 **LinkedIn**

Interests

- Machine Learning
- Full Stack Web Development
- Natural Language Processing
- Robotics
- Android App Development
- Game Development

Highlights

☁ Database Development

📱 Android Development

</> Web Development

≡ Software Engineering

📈 Machine Learning

💬 Natural Language Processing

🤖 Robot Operating System

▭ Arduino

Determined, diligent and a graduate in Computing Science from University of Alberta. I am seeking an opportunity to use my hard work and technical skills to help create and innovate solutions for modern problems in the 21st century.

Education

Computing Science, BSc Specialization	University of Alberta
Grade Point Average	3.0

Computer Experience

Programming Languages: C, C++, Python, Java (Android), MySQL, RISC-V Assembly, C# (for Unity3D), HTML5, CSS3, JavaScript

Other Software: VS Code, LoggerPro, Microsoft and Google Suites, Linux, Robot Operating System (ROS), git, GitHub, Docker, Heroku, Azure Functions, Django, Unity3D, Android Studio

Hardware Applications: Arduino

Work Experience

Associate Developer   (March 2022 – Present)
Infosys Limited
- Received Training in Full stack web development using Spring Framework and Angular.
- Worked on various assignments of task automation by scripting bots in python using libraries like selenium, pandas and sendgrid for client *Nutrien*.
- Deployed multiple automation scripts and bots to MS Azure using Azure's Function Apps.
- Created a report generation bot for Supplier Risk Management using SAP's Supplier Data API.

Web Developer Intern   (July 2021 – August 2021)
Astute Arrow SMART Digital Transformation (Remote)
- Worked as front-end developer of the website.
- Participated in team meetings and gathering requirements.

IT intern   (July 2018 – August 2018)
Dover India Innovation Centre (Bengaluru, India)
- Experience in Developing and Designing Dover India Intranet using MS SharePoint.

Hackathons

HackED 2020   January 2020

• Created a mobile **cross platform** app for android and iOS that enables users to incorporate image processing capabilities using **OCR** (Optical Character Recognition) and **object detection**. For OCR outputs the user is able to either open a link (if applicable), run a valid search query through google search or translate the text into a different language using Google translate API . We managed to obtain a trained model for object detection and also utilize the Firebase google cloud Tensor flow API to highly increase OCR accuracy.
Link: Link To Project

Languages Known

English

Hindi

French (beginner)

Other Skills

- UML
- Design Patterns
- OOP
- Data Structures
- Algorithms
- Makefiles
- SQLite
- Dynamic Programming
- Q-Learning
- SARSA
- Autoencoders
- Deep Neural Networks
- Bootstrap
- Android Studio
- ER Diagrams
- Decision Trees
- Convolutional Networks
- Heuristic Search
- Monte Carlo Tree Search
- AJAX
- FSM
- A* Search
- Reinforcement Learning
- Regular Expressions
- N-Grams
- Naïve Bayes
- Sentiment Classification
- Context Free Grammars
- Spring Framework
- UI Automation/Testing
- Selenium
- Aspect Oriented Programming

NASA CSA Space Apps Challenge   October 2019

• Won **first prize** for the challenge SCISAT – **Canada's Atmospheric Chemistry Experiment** for being able to identify differences in gas concentrations and predict some atmospheric events in Arctic Region based on some satellite data.
• Designed an application to retrieve satellite data from an FTP server with Python and displayed all the analyzed data with multiple graphs on a webpage.
Link: Link To Project

HackED 2019   January 2019

• Designed a web scraper application using Python (beautifulsoup4) and **Django** to retrieve information from yahoo finance website for any requested stock and display information on local server in a formatted way for easy data analysis.
• The main need for such an application was the discontinuation of yahoo finance API which made user analysis using years of data harder.
Link: Link To Project

Research

- **Comparing "Surprisal" in Language Models** (Link to Paper)

Other Projects

- **LinkedSpace** - A social media web platform which is interconnectible to other platforms using REST API. Video Demo
- **Mood Space** - A social media android app which focuses on moods.
- **ChatbotNLP** - Implementation of Chatbot using Intent Classification.
- **Quadris** - Tetris with modified rules.
- **PSDCA** - Face Mask Detection in live video feed.
- **Gomoku Players** - Implementation of Monte-Carlo Tree Search for the game of Gomoku.
- **ROS Navigation** - Navigation Stack for Summit XL robot.
- **RL Robotics** - TD Learning algorithms for Drone Parrot.
- **PETTHEBOT** - IRC twitch bot I created for fun. Deployed using Heroku.
- **TwoSentenceHorror-Dataset** - A dataset containing 23000 two sentence horror stories from the subreddit r/TwoSentenceHorror created using Pushshift-API.

Certifications

- The Web Developer Bootcamp 2021 – Udemy
- Code Foundation for ROS – TCS
- Deep Learning Essentials – IBM
- IBM Blockchain Essentials V2 - IBM
- Android Application Development
- Privacy By Design - Infosys
- Service Layer Using Spring - Infosys
- Persistence Layer Using Spring Data - Infosys
- 5-day Leadership program by King's College London