



## Personal Information

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## 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

- 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 interconnectable 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.

## Certificates

- [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