



Personal Information

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📍 Calgary

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📄 [GitHub](#)

👤 [LinkedIn](#)

Interests

- Machine Learning
- Full Stack Web Development
- Natural Language Processing
- Robotics
- Azure DevOps
- Game Development

Highlights

🗄 Database Development

📱 Android Development

💻 Web Development

🔗 DevOps

🔧 CI/CD Pipelines

🤖 Agentic AI

⚙ Software Engineering

🧠 Machine Learning

💬 Natural Language Processing

🤖 Robot Operating System

📺 Arduino

Software Developer | Driving Innovation in DevOps, AI/Agentic AI, Cybersecurity & Full-Stack Engineering

Results-oriented developer with expertise in automation, cloud, and full-stack solutions. Skilled in building scalable DevOps pipelines, agentic AI-powered automation, and secure enterprise systems. Passionate about leveraging emerging technologies to solve complex business problems and deliver measurable impact.

Education

Computer Science, BSc Specialization

University of Alberta

Grade Point Average

3.0

Computer Experience

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

Other Technologies: VS Code, LoggerPro, Microsoft and Google Suites, Linux, Robot Operating System (ROS), git, GitHub, Docker, Heroku, Azure Functions, Django, Unity3D, Azure DevOps, Android Studio, Azure Artifacts, Azure KeyVault, Azure DataBricks, Kubernetes, Snyk, Splunk, n8n, Terraform (IaC), Vue, React, Angular, SQL, GraphQL

Hardware Applications: Arduino

Work Experience

Senior Associate – Automation Specialist

(March 2022 – Present)

Global Consulting & Technology Solutions Firm

Project: **Nutrien** (Client – Canadian AgriTech Enterprise)

- Developed Python-based automation bots using **Selenium**, **Pandas**, **OpenPyXL**, and **SendGrid**, **Office365** to automate routine operations and reporting tasks.
- Created **failure monitoring bots** that integrated with **ServiceNow**, autogenerating tickets and emailing stakeholders based on trigger conditions.
- Designed and deployed **RPAs** and **RESTful APIs** using **Microsoft Azure Function Apps** and **Django**, following DevOps best practices for CI/CD and scalability. The **RPAs filled design and reporting gaps in SAP enterprise applications like Ariba and Fieldglass**.
- Automated **supplier risk and procurement reports generation** using **SAP Ariba** and **SAP APIs**, storing outputs on **SharePoint** using **Office365 API**.
- Used **Power Automate** to orchestrate multi-step automation processes and enable trigger-based actions from cloud systems. Used **PowerBI** dashboards to visualize and analyze performance trends and **KPIs**.
- Integrated bots with **Snyk** for vulnerability scanning and **Splunk** for log monitoring and observability.
- Provided ongoing support for automations through **ServiceNow**, handling incidents and service requests, ensuring uptime and stability.

IMPACT:

- Reduced manual effort and repetitive tasks by over 70%, improving team productivity.
- Decreased incident volume through proactive monitoring bots, enhancing system reliability.
- Accelerated delivery of procurement reports, improving stakeholder decision-making speed.

Project: **Avon** (Client – Global Beauty & Personal Care Company)

- Migration for Russian contracts, using Python scripts to append CW ID and Contract Name for standardized archiving.
- Assisted in backing up SAP contract data as part of the workspace migration and retention initiative.
- Ensured accurate and auditable contract migration with zero manual naming errors. Improved file discoverability and organization for global compliance audits.

Languages Known

English

Hindi

French (A2)

Other Skills

- ✓ UML
- ✓ Design Patterns
- ✓ OOP (Object-Oriented Programming)
- ✓ Data Structures
- ✓ Algorithms
- ✓ Dynamic Programming
- ✓ Aspect Oriented Programming
- ✓ ER Diagrams
- ✓ Makefiles
- ✓ SQLite
- ✓ PostgreSQL
- ✓ MongoDB
- ✓ DuckDB
- ✓ Large Language Models (LLMs)
- ✓ Generative AI
- ✓ Retrieval-Augmented Generation (RAG)
- ✓ Agentic AI
- ✓ Reinforcement Learning
- ✓ Q-Learning
- ✓ SARSA
- ✓ A* Search
- ✓ Heuristic Search
- ✓ Monte Carlo Tree Search
- ✓ Autoencoders
- ✓ Deep Neural Networks
- ✓ Convolutional Networks
- ✓ Decision Trees
- ✓ Naïve Bayes
- ✓ N-Grams
- ✓ Sentiment Classification
- ✓ Context Free Grammars
- ✓ Regular Expressions
- ✓ PyTorch
- ✓ TensorFlow
- ✓ Scikit-learn
- ✓ Hugging Face Transformers
- ✓ LangChain
- ✓ LangGraph
- ✓ MLflow

Web Developer Intern (July 2021 – August 2021)

Astute Arrow SMART Digital Transformaton (Remote)

- Worked as front-end developer of the website using ASP.NET framework and C#
- 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 Recogniton) 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](#)

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 atmospheric events in Arctic Region based on given satellite data. Designed an applicaton 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 applica8on using Python (beautifulsoup4) and **Django** to retrieve informa8on from yahoo finance website for any requested stock and display informaton on local server in a formatted JSON for easy data analysis. The main need for such an applica8on was the temporary discontinuation of yahoo finance API in 2017. Link: [Link To Project](#)

Research

Comparing “Surprisal” in Language Models (Link to Paper)

Other Projects (Can be found on my GitHub)

LinkedSpace - A social media web plalorm which is interconnectable to other platorms 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.

- ✓ CI/CD
- ✓ Jenkins
- ✓ GitHub Actions
- ✓ Azure DevOps
- ✓ Selenium / Playwright
- ✓ UI Automation / Testing
- ✓ Docker
- ✓ Kubernetes
- ✓ Terraform
- ✓ Ansible
- ✓ IAM (Identity & Access Management)
- ✓ RBAC (Role-Based Access Control)
- ✓ Zero Trust Security
- ✓ Secrets Management (Azure Key Vault)
- ✓ SIEM (Splunk)
- ✓ Spring Framework
- ✓ Bootstrap
- ✓ React.js
- ✓ Node.js
- ✓ REST APIs
- ✓ GraphQL
- ✓ AJAX
- ✓ Android Studio

Certifications

- [The Web Developer Bootcamp 2021 – Udemy](#)
 - [Code Foundatuon for ROS – The Construct Sim](#)
 - [Deep Learning Essentials – IBM](#)
 - [BM Blockchain Essentials V2 - IBM](#)
 - [Android Applicaton Development](#)
 - [Privacy By Design - Infosys](#)
 - [Service Layer Using Spring - Infosys](#)
 - [Persistence Layer Using Spring Data - Infosys](#)
 - [AZ 900 - Microsoft Certified: Azure Fundamentals](#)
 - [AZ 204 - Microsoft Certified: Azure Developer Associate](#)
 - [AZ 400 - Microsoft Certified: DevOps Engineer Expert](#)
 - 5-day Leadership program by King's College London
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