

PROFILE SUMMARY

- **Innovative** and **results-driven software developer** with hands-on experience in designing and building scalable systems and distributed applications
- Over 6 months of Corporate Experience, delivering impactful real-time solutions and streamlining workflows in fast-paced environments.
- Proficient in **Python, JavaScript, ReactJS, Node.js**, and **AWS**, with strong expertise in **Data Structures, Algorithms, Artificial Intelligence, Machine Learning**, and **Cloud Technologies**
- I'm always looking for opportunities to grow as a professional and as a person with the ability to adapt and learn on the fly.

EDUCATION

University of Alberta, Canada

Sept'24 – Dec'26

- Master of Science, Major in Computing Science, Multimedia
- Relevant coursework: AI in Multimedia, Image and Video Processing, Computer Vision and 3DTV, Graphics and Animation, Multimedia Communications, Augmented Reality and Teleprocessing.

CVM University, GCET, India (GPA: 3.76/4)

July'20 – May'24

- Bachelor of Engineering, Major in Information Technology.
- Holds a Minor Degree in Internet of Things.
- Relevant coursework: Data Structures, DBMS, Operating Systems, Computer Networks, Software Engineering, Artificial Intelligence, Soft Computing Techniques, Information and Network Security, Big Data Analytics, Data Science, Cloud Computing.

PROFESSIONAL EXPERIENCE

C-Tribe Festival, Edmonton, AB, Canada

Jan'25 – April'25

Agentic Workflow Research and Software Developer Intern

- Conducting Research to improve task management and decision-making in collaborative environments with **Agentic Workflow**.
- Contributing to the development of their platform
- Collaborating with cross-functional teams to integrate findings into scalable applications.

AlgoAcharya (FinTech Company), Ahmedabad, India

Jan'24 – April'24

Junior Frontend Developer Intern (Co-op Internship)

- Contributed to two real-time projects: a Missing Child Web App and an **AlgoTrading Platform**.
- Developed the front-end for a Missing Child Web App using **React.js** and **AWS**, reducing reporting time for authorities by **30%**.
- Enhanced the AlgoTrading Platform's UI using **Next.js**, improving user satisfaction by **15%**.
- Integrated **REST APIs** to deliver a seamless user experience.

TridyaTech, Ahmedabad, India

May'23 – June'23

Junior Software Developer (Summer Internship)

- Built an EV Ride Application to automate billing and streamline employee workflows using **React Native** and **Node.js**.
- Improved system efficiency by utilizing **MongoDB** for scalable data management.

PROJECTS

Occluded Object Detection for Cow Segmentation | [GitHub](#)

Sept'24 – Dec'24

- Developed a scalable system to detect occluded cows in video datasets, tackling challenges like unstable footage, limited data, and background noise.
- Utilized advanced computer vision techniques (e.g., Mask R-CNN, YOLO) and optimized model performance for real-world scenarios
- Tools: Python, TensorFlow, PyTorch, OpenCV.

Shadow Localization in Thermal Image | [GitHub](#)

Sept'24 – Dec'24

- Built models using U-Net and U-Net++ architectures with spatial attention layers to enhance shadow detection in thermal images.
- Designed multi-channel pipelines by integrating edge map and directional features, improving accuracy on annotated datasets.
- Designed and prepared custom training data using the Roboflow platform, including annotation and preprocessing, to optimize models for real-world scenarios.
- Tools: Python, TensorFlow, RoboFlow.

CVMU Admin Panel | [GitHub](#)

July'23 - Aug'23

- It is an Admin panel for managing the whole minor degree across the university.
- Admin can create new faculties, give them credentials, create new subjects, announce the results, and admit the students.
- Tools: React.js, Bootstrap, AWS, Node.js, MongoDB

BoozApp | [YouTube](#)

May'23 - June'23

- The EV Ride App facilitates Electric Bike rental for users looking to travel short distances.
- It automizes the manual efforts made by the onsite employees.
- It is a real-time scan and ride app that also generates the bill according to the usage.
- Tools: React-native, Expo Go, Node.js, MongoDB

Automation in attendance system using Facial Recognition | [GitHub](#) | [YouTube](#)

Jan'23 - May'23

- Designed a system to automate attendance tracking via video analysis, reducing manual effort by 50%.
- Leveraged Machine Learning for facial detection and recognition.
- Tools: Python, OpenCV, TensorFlow.

SKILLS

- **Programming Languages:** JavaScript, TypeScript, Python, C, C++, C#, SQL
- **Web Technologies:** HTML, CSS, API Development, .NET
- **Framework & Libraries:** React.js, Next.js, Node.js, React-Native, Bootstrap, Expo, TensorFlow, PyTorch, OpenCV, U-Net, YOLO
- **AI & ML:** Large Language Models, Natural Language Processing, Parallel Processing with CUDA, Computer Vision
- **Databases:** MongoDB, MySQL, MS SQL Server, NoSQL, GraphQL
- **Cloud Platforms:** AWS, Microsoft Azure, Oracle Cloud Platform
- **Data Visualization:** Power BI, Tableau
- **Tools:** Git, Jira Postman, VS Code, Cursor, Google Colab, Android Studio, MS Excel, Word, PowerPoint, Outlook
- **Soft Skills:** Problem-solving, Attention to Detail, Agile Development, Team Collaboration, Effective Communication, Adaptability, Self-learning

TECHNICAL CERTIFICATES

1. [Fundamentals of Accelerated Computing with CUDA Python](#)
2. [Introduction to Artificial Intelligence by IBM](#)
3. [Machine Learning with Python by IBM](#)
4. [Data Science Fundamentals for Data Analysts by databricks](#)
5. [Software Architecture by University of Alberta](#)
6. [Introduction to the Internet of Things and Embedded Systems](#)