





PROFESSIONAL SUMMARY

As a Master's student specializing in Multimedia at the University of Alberta, with hands-on experience in project development, proficient in C++, Python, Machine Learning, and SQL, and well-versed in Data Structures, I'm dedicated to pursuing excellence in technology and ready to make a meaningful impact in an internship opportunity.

TECHNICAL EXPERIENCE

Software Engineer Pune,MH

Tata Consultancy Services

May 2021 — Feb 2023

Associated Skills: C++, Java, SQL, Python, Linux, Git, Jira

- · Designed, coded, and debugged diverse software, meeting client specifications and project requirements
- Conducted comprehensive software testing, ensuring quality and reliability through unit and system testing
- Collaborated with clients to understand and translate business needs into precise technical specifications
- Utilized analytical skills to creatively and efficiently solve complex software development problems
- Successfully implemented Agile methodologies, significantly increasing team productivity by 40%

Intern Mohali,PB

Center for Development of Advanced Computing (C-DAC)

Jan 2020 — Apr 2020

Associated Skills: Python, Machine Learning, NLP, Computer Vision, Neural Networks, Deep Learning

- Developed an innovative software solution for enhanced user-system interaction, focusing on efficiency
- Developed an NLP-based sentiment analysis model that demonstrated an impressive 87% accuracy rate

PROJECTS

Cattle Detection | Python, C++, NumPy, Pandas, PyTorch, OpenCV, DETR, Tensorflow

- Applied **DETR algorithm** for cattle detection, overcoming occlusion, small size, and diverse orientations
- Achieved 95% accuracy in cattle detection, optimizing resources for effective early disease detection

Spell-Checking Text Editor | *C++,Trees, Hash Sets*

- Designed and implemented an advanced spell-checking text editor with improved correction efficiency
- Employed **optimized hash sets** to identify and rectify spelling errors, resulting in a seamless user experience

Route Finder and Sorting Algorithm Visualisation | C++, Graphs and Paths, Dijkstra's Algo

- Engineered a route planning system using Dijkstra's algorithm for highly efficient point-to-point navigation
- Implemented highly efficient navigation solutions, enhancing travel time and distance optimization
- Programmed a code that visually demonstrates sorting algorithms-selection sort, merge sort and quick sort

ACHIEVEMENTS

- Awarded TCS Employee of the Month for making noteworthy contributions to the company's success
- Commended for exceptional performance during internship at C-DAC, securing a top 3 project ranking
- Secured **1st place** in a competitive programming contest, showcasing strong programming acumen
- Qualified the challenging GATE exam, which assesses a comprehensive understanding of CS subjects

EDUCATION

University of Alberta, MS in Computer Science - GPA: 3.80/4.00

Sep 2023 - Dec 2025

Relevant Coursework: AI in Multimedia, Deep Learning, Computer Vision, Image and Video Processing, AR/VR

Punjabi University, B.Tech in Computer Science & Engg. - CGPA- 8.20/10.0

July 2016 - July 2020

Relevant Coursework: Data Structures & Algorithms, OOPS, DBMS, Operating Systems, Web Development