

Ritika

(587) 936-4209
Edmonton, Alberta

Seeking Summer Internship or Co-Op | Available for 4–16 months

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TECHNICAL EXPERIENCE

Graduate Teaching Assistant (GTA)

University of Alberta

Jan 2024–Present

Edmonton, Alberta

Associated Skills: Python, SQL, DBMS, NoSQL

- Facilitating group projects or discussions to promote collaborative learning
- Marking assignments, papers, lab reports and exams
- Managing course communications through online platforms like eClass
- Preparing laboratory materials and ensuring their proper organization and functionality
- Providing constructive feedback on assignments to help students improve their performance

Assistant Systems Engineer (ASE)

Tata Consultancy Services

May 2021 — Feb 2023

Pune, India

Associated Skills: Test Automation, Java, SQL, HP-QTP, HP-ALM, Jira, Tosca, QTest, VBScript, Scripting, Selenium

- Designed automated testing solutions using Tosca and UFT tools, enhancing processes by reducing manual intervention
- Facilitated process enhancement by sharing insights for improved testing strategies and software development methodologies
- Collaborated closely with development and quality assurance teams to seamlessly integrate automated testing practices
- Achieved a significant 30% cut in script execution time, boosting testing efficiency and expediting time-to-market delivery

Trainee

Center for Development of Advanced Computing (C-DAC)

Jan 2020 — Apr 2020

Mohali, India

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

- Successfully completed an intensive AI training program at C-DAC, earning an A for exemplary performance
- One standout project entailed creating an NLP-based sentiment analysis model with an 87% accuracy rate in tweet analysis
- Acquired diverse insights into real-world AI applications through interactive discussions and comprehensive case studies

PROJECTS

Cattle Detection | Python, NumPy, Pandas, PyTorch, OpenCV, DETR

- Applied the DETR algorithm for cattle detection, overcoming challenges such as occlusion, small size, and diverse orientations
- Achieved an impressive 95% accuracy in cattle detection, optimizing resources, and aiding early disease detection effectively

Spell-Checking Text Editor | Java, Trees, Hash Sets

- Designed and implemented an innovative spell-checking text editor that completely revolutionized word correction efficiency
- Employed optimized hash sets to swiftly identify and rectify spelling errors, resulting in a seamless user experience

Optimal Route Determination and Sorting Algorithm Visualisation | Graphs and Paths, Dijkstra's Algorithm, Git

- Engineered a robust route planning system using Dijkstra's algorithm for highly efficient point-to-point navigation
- Leveraged programming skills to implement efficient navigation solutions, enhancing travel time and distance optimization
- Programmed a code that visually demonstrates various sorting algorithms like 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 training at C-DAC, securing a top 3 project ranking
- Secured 1st place in a competitive programming contest during my bachelor's degree, showcasing strong programming acumen
- Successfully qualified in the Graduate Aptitude Test in Engineering (GATE) exam, which assesses a comprehensive understanding of undergraduate engineering and science subjects

EDUCATION

Master of Science in Computing Science, University of Alberta, Canada

Sep 2023 - Dec 2024

Relevant Coursework: Artificial Intelligence in Multimedia | Deep Learning | Computer Vision | Neural Networks | Image and Video Processing | Augmented and Virtual Reality | Reinforcement Learning

Bachelor of Technology in Computer Science & Engg., Punjabi University, India | CGPA- 8.20/10.0

Aug 2016 - Aug 2020

Relevant Coursework: C/C++ | Object Oriented Programming | Data Structures & Algorithms | Computer Networks | DBMS | Operating Systems | VBScript | Web Development | Algorithm Analysis