JAI OHRI

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EDUCATION

B.Sc. in Computer Engineering – Software Option (Co-op)   *Class of 2027*
University of Alberta, Edmonton, AB **{CGPA: 3.7}**
- *Number of Work Terms completed:* 3 of 5
- *Number of Academic Terms completed:* 6 of 8

WORK AND VOLUNTEER EXPERIENCE

Software Engineer | *[Work Experience]*   **November *2024 - August 2025***
Stepscale.ai | *Toronto, ON*
- Built and optimized agentic AI systems tailored for real estate developers, including features such as Project Knowledge, SiteKnowledge, SiteChat, and Project Agents.
- Integrated external services (Google Drive, Gmail, DocuSign, Pipedream) into workflows, enabling smarter automation and knowledge management.
- Designed and developed the company's complete website from scratch in Framer, creating professional UI/UX flows and interactive product demos that improved client engagement.

Research Assistant | *[Work Experience]*   *May 2024 - August 2024*
Soft Matter & Interfaces Research Group, University of Alberta | Edmonton, AB
- Collaborated with chemical engineering post-doctoral researchers to develop machine learning models that dramatically reduced computational times for complex CFD simulations.
- Led a project utilizing proprietary data from Imperial Oil to develop predictive artificial neural network (ANN) models for pressure drop in slurry waste pipelines, enhancing operational efficiency and predictive accuracy.

Vice President of Finance | *[Volunteer Experience]*   *May 2024 – July 2024*
Engineering Students Society, University of Alberta | Edmonton, AB
- Treasurer and the signing authority for the Engineering Students Society managing the money flow for the club.
- Responsible for the annual budget, Sponsorships and managing the advertisements for the sponsors.

PROJECTS

PhysMatch (Domain: Healthcare) | Python, JavaScript, React, Flask, Html, CSS:
- Built a React JS-based webpage "PhysMatch", utilizing IoT to connect 650,000 residents in Alberta with local physicians, addressing healthcare gaps.
- Integrated Muse headband's EEG into PhysMatch, achieving 97% emotion recognition using machine learning

FireWatch (Domain: Public Safety):
- Enables instant wildfire safety assessment with live location data and advanced algorithms for proximity analysis.
- Provides comprehensive risk factors, including distance, fire severity, and water bodies, dynamically adjusting risk levels through real-time severity mapping for adaptive response.

Medi-to-Go (Domain: Healthcare) | Python, Tkinter**,** Google Maps**:**
- Developed an inclusive digital health platform that connects individuals with cognitive disabilities to physicians and facilitates medication home delivery, featuring an intuitive medicine shopping portal and real-time travel information to nearby hospitals.
- Implemented robust user authentication and data persistence features, ensuring a seamless and secure user experience by allowing individuals to pick up where they left off.

AWARDS/COMPETITIONS

First - Class Standing Letter - faculty of engineering [2024]:
- Awarded to students with exceptional academic standing.

University Of Alberta Engineering Competition [UAEC]:
- Won UAEC 2023 with a groundbreaking wildfire risk analysis, outperforming senior teams as 2nd-year undergraduates.
- Nominated as U of A's representative for WEC 2024, highlighting excellence and strong skills.

Western Engineering Competition:
- Represented University of Alberta for WEC 2024 held in University in Manitoba for the software development division.
- Competed against 10+ western Canadian engineering and managed to achieve 4th position for our project.
- Were the only 2nd year students in the division.

ADDITIONAL SKILLS & INFORMATION

- **Technical:** Python, C, C++, Java, JavaScript, HTML, Tailwind CSS, Django, PostgreSQL, Redis, Celery, Git, Amazon Web Services (AWS), Retrieval-Augmented Generation (RAG), LangChain, LangGraph, Machine Learning, Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN)
- **Developer Tools:** Git, VS Code, Visual Studio, Cursor, Jira, Langsmith
- **Language Proficiency:** Bilingual English/Hindi; Speaking Proficiency-Punjabi
- **Driving License:** Class 5