

Happy Prajapati

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SUMMARY OF SKILLS

- Languages & Web: Python, SQL, Java, C, JavaScript, HTML/CSS, ReactJS, Modern Web Framework
- Machine Learning & AI: TensorFlow, PyTorch, Keras, Pandas, CNN, NumPy, Computer Vision, Deep Learning
- Backend & Cloud: RESTful APIs, FastAPI, PostgreSQL, MySQL, AWS Lambda, Linux, Git, GitHub, GitLab
- Testing & Practices: Pytest, Integration Testing, Unit Testing, Software Development Life Cycle, CI/CD Pipeline
- AI Tools & Development: GitHub Copilot, ChatGPT, Claude, LLMs, Prompt Engineering, Generative AI

EDUCATION

Bachelor of Science, Computer Science

Sept 2024 – Present

University of Calgary, Alberta

- Minor in Mathematics
- Science Co-op Program

PROJECTS

CPSC 411 – Python Compiler to x86 Assembly

Jan 2026 – Apr 2026

- Built a Python-to-x86 compiler implementing lexical analysis, parsing, semantic analysis, type checking, and low-level x86 code generation.
- Applied data structures & algorithms to manage compiler and transform high-level programs into x86 assembly.
- Developed automated Pytest validation across 50+ programs to improve correctness and test coverage.

OMG – Online Multiplayer Game Platform

March 2025 – Apr 2025

- Developed real-time Java software components using Maven for multiplayer game-state management, matchmaking, and live leaderboard processing.
- **Led a 5-person unit** within a 25-student initiative, gathering cross-team requirements across 3 shared games.
- Performed in code reviews, performed integration and functional testing to maintain platform quality.

TrustBuy – Online Marketplace

Jan 2025 – Apr

2025

- Developed a full-stack application using Django REST APIs, MySQL, and ReactJS, integrating backend, frontend, and API components to support scalable, production-ready user workflows.
- Translated functional specifications into reusable React components to deliver maintainable application features.
- Refactored and Integrated REST APIs and databases to improve data transformation, scalability and reliability.

EMPLOYMENT EXPERIENCE

Undergraduate Researcher

Jan 2026 – Present

DANSA LAB, University of Calgary, Calgary, AB

- Achieved 96.81% accuracy building and deploying a production-quality Python deep learning pipeline to ingest, process, and classify large-scale unstructured video datasets for real-time anomaly detection.
- Benchmarked six deep learning architectures (EfficientNetB0, VGG16, DenseNet121, ResNet50, MobileNetV2, EfficientNetB2L) for video frame image classification and accuracy configurations to identify the optimal model.
- Applied an evaluation-driven approach using ROC/PR curves and validation metrics to define benchmarks, identify failure modes, and improve AI pipeline performance across experimental configurations.

Meal Advisor

Oct 2024 – Present

M&M Food Market, Calgary, AB

- Advised customers with meal selections by offering personalized recommendations based on dietary preferences.
- Resolved customer inquiries regarding product details and promotions to enhance satisfaction and sales.
- Generated end-of-day financial reports and completed franchise documentation during store closings.

ACHIEVEMENTS/AWARDS

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- **Dean's List Recipient**, University of Calgary, Calgary, AB (2026)
 - **University of Calgary International Student Scholarship**, University of Calgary, Calgary, AB (2026)