

# Zohair Omar

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**Role-Specific Portfolio:** zohairomar.netlify.app/for/precision-drilling/ai-innovation-intern

## Summary

4th Year Computer Science & Mathematics student @ UofC (transferred from UBC) focused on building practical AI and automation tools that improve operational efficiency and decision-making. Built AI chatbots/agents and automation workflows using **Python, JavaScript, OpenAI APIs, and Google Gemini**, with strong habits around **clear documentation, stakeholder demos, and reliability-first delivery**. Strong analytical and research mindset for evaluating AI tooling, preparing structured/unstructured data, and iterating solutions based on user feedback. **Available May 2026; can commit to the full 8-month term starting May 6, 2026.**

## Technical Skills

**AI / Automation:** RAG, LLM agents, prompt workflows, evaluation mindset, automation-first design

**AI Platforms:** OpenAI API, Google AI / Gemini (multi-provider architecture)

**Programming:** Python, JavaScript/TypeScript, REST APIs, Git, CI/CD (GitHub Actions)

**Data:** SQL, data cleaning/validation, ETL/EDA, semantic search/vector similarity

**Delivery:** requirements gathering, user demos, documentation, iterative rollout/support

## Education

**Bachelor of Science, Computer Science & Mathematics (Minor in Economics)** Expected April 2027  
University of Calgary, Alberta

**Bachelor of Science, Computer Science** Sep 2022 – Sep 2024  
University of British Columbia, Vancouver

*Relevant Courses:* Applied Machine Learning (CPSC 330), Explorations in AI & ML (CPSC 383)

## Projects

**Ticket Triage RAG Bot;** Python, OpenAI API, Google Gemini, Streamlit, CI/CD

- Built an AI-powered ticket triage system that categorizes, prioritizes, and suggests resolutions using patterns from **100+ historical issues**, replacing manual triage work.
- Designed a reliability-first architecture with a **3-level fallback chain** (LLM → provider switch → rules-based classification) to maintain consistent system behavior during outages.
- Reduced inference cost by **5–10x** using caching and batching to avoid redundant API calls while keeping outputs responsive for users.
- Implemented fast semantic retrieval using vector similarity to return relevant historical matches in **<5 ms**, enabling quick decision support during triage.
- Shipped a multi-view dashboard (live triage, historical search, similarity explorer + CSV export) to support adoption through usable workflows, not just a prototype.
- Wrote **34 automated tests** with no dependency on live APIs to enable safe iteration and predictable deployments.

**Production Analytics & Forecasting Dashboard;** Python, Streamlit, Pandas, anomaly detection

- Built an analytics workflow that cleans and standardizes multi-well production data into analysis-ready datasets for operational reporting.
- Implemented forecasting and anomaly detection to highlight deviations and performance changes that support faster data-informed decisions.
- Delivered stakeholder-friendly outputs with clear metric definitions and repeatable refresh steps to support ongoing use and iteration.

## Experience

**TechNova** Feb 2025 – Present  
*Co-Founder & VP Technical;* Python, JavaScript, Git  
Calgary, AB

- Gathered requirements from non-technical stakeholders and translated needs into shipped tools/features, iterating quickly based on feedback.
- Delivered internal-facing solutions with clear documentation and walkthroughs to support adoption and reduce repeat support questions.

**Agrius IT** May 2024 – Jul 2024  
*Software Developer Intern;* Python, SQL  
Abu Dhabi, UAE

- Supported troubleshooting and analysis by writing/refining SQL queries to retrieve and validate operational data; summarized findings for faster issue resolution.
- Improved SOP clarity and repeatability by documenting resolutions and edge cases for recurring system and data issues.

**Enactus UCalgary – WealthPath** Jul 2025 – Present  
*Front-End Development Lead;* Agile/Scrum, stakeholder delivery  
Calgary, AB

- Led a 4-person team through iterative delivery and cross-functional collaboration; maintained issue tracking and clear status updates under deadlines.
- Standardized review quality using CI checks (GitHub Actions), supporting stable releases while the product evolved with partner feedback.