Zohair Omar

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Role-Specific Portfolio: zohairomar.netlify.app/for/atco/ai-automation

Summary

May 2026 Co-op Applicant (8 or 12 months). 4th Year Computer Science & Mathematics student @ UofC (transferred from UBC) with strong programming fundamentals in **Python** and hands-on experience building **automation and AI-style workflows** using **Power Automate**, API integrations, and dashboard tooling. Built systems with **RAG-style retrieval**, multi-provider AI routing, CI/CD, and test coverage; well-versed in fast learning, debugging, and documentation (SOPs, runbooks, onboarding guides) to support reliable delivery and team handoffs.

Technical Skills

Automation & Workflow: Power Automate, SharePoint, Microsoft Graph API, Azure AD (OAuth2)
AI / RAG Concepts: Retrieval-augmented patterns, promptable assistants, multi-provider model routing (OpenAI, Gemini)
Programming & APIs: Python, SQL, REST APIs, Postman, Go, JavaScript/TypeScript
DevOps & Testing: Git, CI/CD (GitHub Actions, Jenkins), Unit Testing (JUnit5), Docker
Data & Dashboards: Power BI, Excel (Pivot Tables, VLOOKUP, Charts), Streamlit, Plotly

Education

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

Bachelor of Science, Computer Science — Sep 2022 – Sep 2024
University of British Columbia, Vancouver
Key Courses: Data Structures & Algorithms, Applied Machine Learning (Python), Introduction to Data Science (R)

Projects

Ticket Triage RAG Bot | Python, OpenAI, Gemini, Streamlit
- Built an AI-assisted ticket triage workflow that categorizes, prioritizes, and suggests resolutions using patterns from **100+** historical issues, reducing manual analysis effort.
- Implemented a **3-level fallback chain** (model $\rightarrow$ provider switch $\rightarrow$ rules) to maintain consistent behavior when AI services are unavailable.
- Reduced API spend by **5–10$\times$** via caching and request batching to avoid redundant calls to paid AI services.
- Shipped multi-provider routing for **OpenAI and Google Gemini** to switch providers based on cost, latency, or availability with minimal configuration changes.
- Wrote **34 automated tests** covering core logic without live API dependency to enable reliable CI/CD and fast iteration.

Production Analytics & Forecasting Dashboard | Python, Streamlit, statsmodels, Plotly, Azure AD, Microsoft Graph API, Power Automate
- Built an interactive analytics dashboard on North Sea production data (**7 wells, 2008–2016**) with ETS forecasting (95% intervals), anomaly detection, and KPI tracking (MoM/YoY).
- Integrated SharePoint file I/O via **Azure AD (OAuth2)** and **Microsoft Graph API** with automatic token refresh and a fallback mode when credentials are unavailable.
- Designed a **Power Automate** workflow for scheduled reporting via Outlook with scope-based failure handling and admin notification for operational reliability.

UBC Thrifty Grocers | Go, React, Postman, Tailwind CSS
- Engineered backend services in Go, improving server response speed by **40%**; validated endpoints using Postman and scripted tests with a **100%** pass rate.
- Applied CORS, proxies, and access control logic to restrict unauthorized resources and support a **99%** error-free deployment rate.

Experience

Enactus UCalgary – WealthPath — Jul 2025 – Present
Front-End Development Lead; React, TypeScript, GitHub Actions — Calgary, AB
- Led a **4-person** team and facilitated **2–3** Scrum meetings weekly; tracked action items and deliverables with high attention to detail and clear communication.
- Implemented **CI/CD with GitHub Actions** (linting and tests per PR), supporting **30+** successful merges without regression.
- Coordinated API contracts with back-end teammates, resolved integration issues, and maintained documentation to speed delivery by **1–2 sprints**.

Agrius IT — May 2024 – Jul 2024
Software Developer Intern; Python, SQL, Web Security — Abu Dhabi, UAE
- Fortified web application security using **CORS, proxy settings, and robust error handling**, supporting uninterrupted access for **1,000+ daily users**.
- Developed secure backend functionality including **authentication and RBAC** using SQL to enforce least-privilege access.
- Documented workflows and SOPs for issue resolution and system operations; collaborated cross-functionally to resolve **three** critical bottlenecks ahead of schedule.