

# Ammar Alzureiqi

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## EXPERIENCE

### Software Developer

Sept. 2024 – Present

Alzureiqi Solutions

London, ON

- IDA Academy: Streamlined LMS migration and optimization, significantly reducing system load times and enhancing student engagement; developed integrated marketing website with custom student portal enabling real-time progress tracking for students, teachers, and administrators
- The Wellness Network: Designed and deployed a self-service CMS platform for the organization's website, allowing the marketing team to independently manage content, events, and initiatives without technical support.
- Arqam SIL: Led comprehensive community census development and data analysis for thousands of responses, uncovering key demographic insights and community challenges that directly informed program improvements and resource allocation decisions

### Software Engineer

May 2024 – Oct. 2024

CensusX.ai

Toronto, Ontario

- Developed an AI-powered business assistant that integrates with POS systems to surface real-time insights through natural language queries, streamlining business decision-making for clients.
- Designed and implemented a scalable ETL pipeline using Apache Spark and Airflow to support reliable ingestion and transformation of large-scale business data for downstream analytics.
- Built a Retrieval-Augmented Generation (RAG) pipeline using LLAMA 3.1 70B to enable personalized, context-aware business recommendations based on user data and historical trends.

### Software Developer Intern

Jan. 2023 – Aug. 2023

MK Bookkeeping and Tax Services

London, ON

- Built an employee timekeeping system, with features like role-based access, automated timesheets, and real-time dashboards. Improving payroll accuracy and reducing admin overhead.
- Created an automated invoice processing system with OCR and data extraction tools, significantly reducing manual input and improving bookkeeping accuracy.

## EDUCATION

### University of Illinois Urbana-Champaign

Champaign, IL

Master's of Science in Computer Science — GPA: 4.0

May 2023 – Dec. 2024

- Relevant Coursework: Advanced Machine Learning, Statistical Modeling, Database Systems, IoT

### Western University

London, ON

Honor's Bachelor's of Science in Statistics — GPA: 3.9

Sep. 2017 – Apr. 2021

- Relevant Coursework: Probability Theory, Statistical Inference, Regression Analysis, Multivariate Statistics, Data Science, Machine Learning, Time Series, Applied Linear Models, Computational Statistics

## PROJECTS

### Hirestack | Python, Django, AWS Lambda, DynamoDB, Next.js

Live Demo: [Hirestack](#)

- Architected a serverless backend using AWS Lambda, DynamoDB, and API Gateway to periodically ingest and consolidate job listings from multiple external sources.
- Built a scalable ETL pipeline with schema validation, deduplication, and ML-driven tagging to enable efficient search, personalized filtering, and automated job alerts.

### RetailPulse | Python, OpenCV, FastAPI, Streamlit, Docker

GitHub: [RetailPulse](#)

- Developed an IoT-based People Counter application using Raspberry Pi, leveraging computer vision (OpenCV, PyTorch) for accurate real-time customer detection and tracking in retail environments
- Designed and implemented a scalable backend infrastructure using FastAPI, WebSockets, and Uvicorn, enabling instant data processing and visualization for actionable retail store optimization insights

## TECHNICAL SKILLS

**Languages:** Python, R, Go, Java, JavaScript, HTML/CSS, and SQL

**Tools and Technologies:** Flask, Django, AWS, Docker, Kubernetes, OpenCV, React, Git, PyTorch, Matplotlib, TensorFlow, Keras, NumPy, Pandas, Power BI, MySQL, MongoDB, PostgreSQL, DynamoDB, REST, Apache Airflow