Ammar Alzureiqi

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EXPERIENCE

Software Developer — Sept. 2024 – Present
The Wellness Network (Non-Profit Organization)

- Led the end-to-end development of a fully in-house Learning Management System (LMS), custom-built to address the unique needs of the organization, enhancing both student engagement and administrative efficiency
- Engineered a PostgreSQL database to securely store academic data, improving performance and reducing latency by 50%, while migrating legacy data with 99% accuracy using advanced mapping techniques to ensure data integrity, security, and seamless continuity
- Developed comprehensive analytics tools to provide actionable insights on student performance, teacher engagement, and academic outcomes, empowering administrators with data-driven decision-making capabilities

Software Engineer — May 2024 – Oct 2024
CensusX.ai — *Toronto, Ontario*

- Developed AI business assistant integrating directly with POS systems to provide real-time analytics, insights, and actionable business intelligence through natural language interaction
- Implemented advanced LLM system using RAG and LLAMA 3.1 70B, creating personalized business assistant capable of complex data analysis, trend identification, and actionable recommendations
- Engineered a scalable ETL pipeline with Apache Spark, Kafka, and Airflow, boosting data processing speed by 40% through efficient API-based ingestion and optimized PostgreSQL indexing

Software Developer Intern — Jan. 2023 – Aug. 2023
MK Bookkeeping and Tax Services — *London, ON*

- Developed and deployed a full-stack employee time-tracking application with Flask, PostgreSQL, and AWS, implementing robust API endpoints and data validation, resulting in a 40% reduction in payroll processing time
- Engineered an automated invoice processing system utilizing OCR and data extraction techniques, streamlining information input into the company's bookkeeping system and significantly reducing manual data entry errors

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, Data Visualization, Database Systems, Internet of Things (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, Next.js, Tailwind, AWS, DynamoDB* — Live Demo: [Hirestack](https://hirestack.dev)

- Architected a scalable, serverless job aggregation platform using AWS (Lambda, DynamoDB) and Python, processing real-time data from LinkedIn, Indeed, and other job boards, enabling automated job searches
- Engineered an automated data pipeline with machine learning for intelligent job tagging and salary analysis, enhancing market analytics and delivering data-driven career planning tools to users

RetailPulse | *Python, OpenCV, FastAPI, Streamlit, Docker* — GitHub: [RetailPulse](https://github.com/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, SciPy, Power BI, MySQL, MongoDB, PostgreSQL, DynamoDB, REST API