Ammar Alzureiqi

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EDUCATION

University of Illinois Urbana-Champaign — Champaign, IL
Master's of Science in Computer Science — GPA: 4.0 — *May 2023 – Dec. 2024*

Western University — London, ON
Honor's Bachelor's of Science in Statistics — GPA: 3.9 — *Sep. 2017 – Apr. 2021*

TECHNICAL SKILLS

Languages: Python, R, Java, JavaScript, HTML/CSS, and SQL
Tools and Technologies: Flask, Django, AWS, OpenCV, React.js, Git, PyTorch, Sci-Kit Learn, Matplotlib, TensorFlow, Keras, NumPy, Pandas, SciPy, Power BI, MySQL, MongoDB, PostgreSQL, DynamoDB, REST API, Docker

EXPERIENCE

Software Engineer — May 2024 – Oct 2024
Stealth Startup — *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.
- Automated payroll reporting system using Python and openpyxl, streamlining weekly financial processes, reducing report generation time and showcasing the ability to automate complex business processes.

Software Developer Intern — Apr. 2019 – Aug. 2019
Western University, Schulich School of Medicine — *London, ON*
- Led the development of a scalable, template-based course website system, revolutionizing the online learning experience for medical students while reducing course setup time by 80%.
- Developed an automated solution using Python and NLP libraries to generate accurate closed captions for lecture videos, ensuring AODA compliance and improving accessibility for students with diverse learning needs.
- Engineered an AI-powered chatbot using natural language processing to handle student inquiries about courses, schedules, and administrative processes, reducing support staff workload by 40% and improving response times.

PROJECTS

Hirestack | *Python, Django, Selenium, Next.js, Tailwind, AWS, DynamoDB* — Live Demo: Hirestack
- Architected scalable job aggregation platform using AWS serverless infrastructure (Lambda, DynamoDB) and Python, processing real-time data from LinkedIn, Indeed, and other major job boards.
- Engineered automated data pipeline for market analytics, implementing machine learning for intelligent tagging and salary analysis, enabling data-driven career planning decisions.
- Implemented a containerized microservices architecture using Docker and Vercel to ensure consistent deployment and high availability across the application.

Customer Traffic Analysis System | *Python, OpenCV, FastAPI, Streamlit, Docker* — Github Repo
- 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.