Yene Irvine

yeneirvine@gmail.com • yeneirvine.com • github.com/yirvine • linkedin.com/in/yene-irvine

Education & Certifications

M.ENG., SOFTWARE ENGINEERING
University of Calgary, Calgary AB
GPA of 3.94; graduated May 2024

B.ENG., CHEMICAL ENGINEERING
Dalhousie University, Halifax, NS
GPA of 3.80; graduated April 2018

AWS CERTIFIED CLOUD PRACTITIONER CLF-C02, 2024

MICROSOFT CLOUD CERTIFIED: AZURE FUNDAMENTALS AZ-900, 2024

Work Experience

SOFTWARE DEVELOPER | Fuel Transport Inc. | *Montreal, QC | September 2024 – Present*
- Led data migration from IBM DB2 to Snowflake, optimizing workflows using Azure Data Factory pipelines
- Built, integrated a Rate Editor app with JavaScript and FastAPI, enabling updates for Snowflake-hosted rates
- Deployed, maintained microservices on Azure Container Apps to ensure scalable and resilient infrastructure
- Validated and parsed XML request & response data from SOAP APIs, troubleshooting and optimizing integrations with Postman and Azure API Management

CONTROLS ENGINEER | MCA Consultants | *Charlottetown, PE & Halifax, NS | Apr. 2019 – Jan. 2022*
Worked on 2 large-scale expansion projects w/ a pharmaceutical manufacturing company. My key contributions:
- Developed and implemented 25 complex control narratives for utilities and process control systems, collaborating closely with PLCs, process equipment, contractors to enhance BV Building Automation System
- Developed a program integrated into Microsoft Excel to determine relieving requirements for pressurized vessels based on NFPA and ASME standards; this program was integral in designing venting configurations and specifying required relieving equipment for 50+ major pressurized process vessels
- Led a team to commission all process and utility systems and associated equipment under strict timelines

Relevant Projects

- Completed a thorough deep learning initiative with University of Calgary Biometrics Lab to build an innovative 3D-CNN model that detects breathing patterns in sleeping clients at the Calgary Drop-In Centre via thermal video camera to promptly identify medical emergencies, leveraging HPC cluster computing for necessary data processing and computation and WandB for real-time performance tracking
- Currently developing a running app using JavaScript (React Native) and NestJS, integrating real-time GPS tracking, Firebase authentication, and social features to enhance user engagement
- Designed and implemented a cloud-based web application that leverages Spotify's web API and optimization algorithms to dynamically generate and optimize DIY-DJ set playlists, hosted on AWS EC2

Technical Skills & Languages

- Skilled in full-stack web development with proficiency in HTML, CSS, and JavaScript for frontend architecture, Node.js (with Express) for backend, MySQL/PostgreSQL for database management
- Fluent in programming languages Python, Java, JavaScript
- Experienced in parsing, manipulating, exchanging data using XML and JSON in APIs and backend services
- Proficient in using Pandas and NumPy for data cleaning, transformation, and analysis
- Demonstrated strong leadership and communication skills in team management and project coordination