

# ABHINAV JANGRA

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## WORK EXPERIENCE

### eClerx Services

Senior Analyst

July 2021 – Aug 2023

- Migrated batch and historical data processing from Teradata and Oracle to Azure Data Lake and Synapse, leveraging PySpark, ADF, and Delta Lake, improving data accuracy and retrieval time by 10%.
- Designed and automated data pipelines and Control-M job scheduling for incremental big data processing in Azure Databricks, reducing manual effort by 5%.
- Developed PySpark frameworks for transformations, optimized data ingestion, and enabled seamless customer notifications via Logic Apps and ADF.
- Automated SQL-to-PySpark transformations and data validation scripts, cutting manual workload by 2 months and improving debugging efficiency by 12%.
- Collaborated with Agile teams to align migration efforts with strategic goals, delivering impactful, scalable solutions.

## PROJECTS

### BestBuy App on AKS, Algonquin College

Nov 2024 – Dec 2024

- Developed and deployed a scalable e-commerce platform on Azure Kubernetes Service (AKS) using microservices architecture with Node.js, Rust, Go, and Vue.js.
- Integrated RabbitMQ, MongoDB, and AI services (OpenAI LLM and DALL-E) to streamline order processing and improve user experience.
- Implemented CI/CD pipelines with GitHub Actions and Docker, optimizing deployment workflows and ensuring high availability with auto-scaling in AKS.

### Rideau Canal Skateway Monitoring System, Algonquin College

Nov 2024 – Dec 2024

- Developed a real-time monitoring system using Azure IoT Hub and Stream Analytics to track ice conditions and detect unsafe conditions on the Rideau Canal Skateway, with results stored in Azure Blob Storage.
- Implemented a Python-based simulation to send telemetry data, ensuring scalable and continuous monitoring for real-time condition detection.

### AI-Assisted Business Intelligence (Capstone Project)

Jan 2024 – Apr 2024

- Developed a web application leveraging Generative AI (GPT-3) and PostgreSQL to automate data analysis for Canada Post, enabling real-time insights through AI-generated queries that interact with large datasets while ensuring data security.
- Optimized performance and cost-efficiency, achieving sub-5 second query responses and maintaining operational costs under \$0.5 by implementing caching, autocomplete features, and a modular design to ensure scalability and flexibility.

## SKILLS

- **Technical Skills:** Python, Java, Azure DevOps, CI/CD Pipeline, AKS, Terraform, Jenkins, Docker, Kubernetes, SQL, ReactJS, Power BI, Tableau, Business Intelligence, Data Structures, AI/ML, AWS, C++, HTML, CSS, Excel, IBM, Cloud Architecture, Cloud Migration, Real-time Data Processing, Cloud Security, Automation, Infrastructure as Code (IaC), Data Backup and Recovery, Compliance, Networking, Ansible, Git, Maven, Linux, Testing, Gcp, Unit Testing, Jira, Version Control, Google cloud, Virtual Machine, Cryptography, Gitlab
- **Soft Skills:** Problem- Solving, Excellent oral and written communication skills, Leadership, decision-making, Critical Thinking, Adaptability, Quick Learner, working collaboratively with Cross-functional teams, Documentation, Proactive, Agile Mindset

## CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals
- SQL (Hacker Rank)
- Python (Hacker Rank)
- Generative AI Fundamentals (Databricks)

## EDUCATION

### Algonquin College

Cloud Development and Operations - Graduate Certificate

May 2024 – Jan 2025

- Dean's Honors List: GPA 3.75 / 4.0 - 1 Term

### Algonquin College

Business Intelligence System Infrastructure - Graduate Certificate

Sep 2023 – Apr 2024

- Dean's Honors List: GPA 3.75 / 4.0 - 1 Term

### Chitkara University, India

Bachelor of Technology in Computer Science and Engineering

Aug 2017 – Jun 2021

- Graduated with a 9.1/10.0 CGPA