NIGEL GEORGE

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PROFESSIONAL SUMMARY

Backend & Data Engineer with 5+ years of experience in high-performance application development and **data pipeline automation**. Expert in building **distributed systems** using **Python, Advanced SQL, and Kafka** within **AWS/Snowflake** environments. Successfully optimized system performance by 60% and currently focused on delivering **reliable, observable data platforms** using **dbt and Great Expectations**. Combines a **Master's in Computer Science** with **Postgraduate training in AI and Data Science** to deliver scalable, clean-code solutions.

SKILLS

Core Technical Skills

- **Languages & Frameworks:** Python (FastAPI, Flask), SQL (PostgreSQL, MySQL), PySpark.
- **Data Engineering:** End-to-End ETL/ELT Pipelines, Data Modeling (Star Schema, Medallion Architecture), dbt.
- **Messaging & Streaming:** Apache Kafka (Real-time Ingestion, Consumer Lag Optimization).
- **Cloud & DevOps:** AWS (S3, Glue, Lambda, Redshift), Docker, Git, CI/CD, Linux.
- **Storage & Performance:** Parquet (Columnar Storage), Partitioning, Query Optimization, Schema Evolution.

Engineering Rigor & Observability

- **Data Reliability:** Great Expectations (Automated Quality Gates), Data Validation, Data Contracts.
- **Orchestration:** Apache Airflow (Idempotent DAG Design, Sensor-based Automation).
- **Monitoring:** Grafana, Prometheus (Pipeline Throughput & System Health Observability).
- **Analytics:** Pandas, NumPy, Tableau (Business Intelligence Dashboards).

PROFESSIONAL EXPERIENCE

Backend & Data Engineer   **Feb 2024 – Present**
Toronto, ON
- Engineered a Python-based scraping system processing **35,000+ restaurant records** with pagination handling and structured data pipelines.
- Built scalable ETL workflows to transform and load data into optimized SQL schemas.
- Optimized database performance through schema redesign and indexing strategies.
- Designed and delivered a production-ready backend using FastAPI, implementing RESTful APIs, authentication, validation, and modular architecture for client-facing applications.

Webpage Development Volunteer   **Nov 2023 – Dec 2023**
Loyalist College, Toronto, ON
- Developed SharePoint modules for Student Portal, improving navigation and usability for **1,000+ students**.

Senior Backend Software Developer   **Jan 2020 – Apr 2022**
Om Informatics, Mumbai
- Designed and implemented backend workflows and functionalities for diverse projects, including RESTful microservice-based components and complex database management with optimized stored procedures.
- Collaborated with front-end teams to ensure seamless application integration, conducted end-to-end testing, and managed server setup, deployment, and maintenance.
- Optimized existing codebases and database structures, improving system efficiency by **40%** and reducing response time by **60%**.
- Led **3 end-to-end projects**, overseeing the complete systems development lifecycle—from requirements gathering to production release—while managing and mentoring a team of **3 developers** per project.
- Skilled in **Python (Django, Flask), Core PHP, SQL, PostgreSQL, JavaScript, jQuery, Ajax, Linux, and GitLab**, with a strong focus on scalable, maintainable backend architectures.

Full Stack Developer Intern   **Mar 2019 – Apr 2019**
Destiny Education & Travels Service Provider LLC, Andheri
- Completed a 440-hour Internship during my Master's in Computer Science.
- Developed a Customer Panel Module for their Web Application.
- Gained hands-on experience with technologies such as Spring Boot Microservices, MySQL, HTML5, CSS3, AJAX, and JavaScript.

Software Developer   **May 2017 – Jun 2018**
Hitesh Solutions, Mulund
- Enhanced client web application by revamping frontend and backend (PHP, MySQL).
- Built an **SMS Portal** to improve client communications.

EDUCATION

Ontario College Graduate Certificate in Artificial Intelligence and Data Science   **May 2022 - Dec 2023**
Loyalist College - Toronto, ON
- Capstone Project: Object Detection with YOLOv7
- Tools: PyTorch, scikit-learn, TensorFlow

Master's in Computer Science   **Jul 2017- Apr 2019**
SIES (Nerul) College of Arts, Science & Commerce (Mumbai University)
- Capstone Project: H1B Visa Prediction using Machine Learning
- Graduated with Distinction (CGPA 8.1/10)

Bachelor's in Information Technology   **Aug 2014 - Apr 2017**
Birla College of Arts, Science & Commerce (Mumbai University)
- Capstone Project: Peasant's Help Center – An agricultural support portal in ASP.NET

Additional Information

- Authored a technical blog and code series - **Learning with Nigel,** focused on system design, ETL pipelines, and backend architecture.
- Open to remote, on-site, and hybrid roles across Canada
- Canadian Status - **Permanent Resident**