

Praful Nair

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EDUCATION

Concordia University, Montreal

Masters in Applied Computer Science | **GPA:** 3.65/4.3

Sept. 2022 – June 2024

Montreal, QC, Canada

- **Courses:** Data Engineering, Distributed Systems, Computer Vision, Algorithm Design Techniques

University of Mumbai, Maharashtra, India

Bachelors in Computer Engineering | **GPA:** 8.42/10

Aug. 2016 – Jan. 2021

Mumbai, India

TECHNICAL SKILLS

Languages: Python, SQL, Java, JavaScript, C **Libraries/Tools:** pandas, NumPy, matplotlib, seaborn, Tableau, Flask, Git, GitHub Actions, Docker **Databases:** MySQL, PostgreSQL, BigQuery **Cloud:** GCP (Cloud Functions, BigQuery), AWS (EC2, S3) **Other:** Data Cleaning, Exploratory Data Analysis (EDA), Data Wrangling, Visualization

EXPERIENCE

Developer Intern

Valsoft Corporation

Sept. 2024 – Dec. 2024

Montreal, QC, Canada

- Developed a MapReduce script and API-based service to sync invoice data from NetSuite ERP to a third-party system, ensuring high reliability across financial datasets
- Used log analysis and retry logic to improve visibility and reliability in data transfer pipelines across accounting systems
- Built an internal platform for feedback management using Flask and PostgreSQL, with dashboards to track data-driven insights from cross-team feature suggestions

Graduate Teaching Assistant

Concordia University

Sept. 2023 – May 2024

Montreal, QC, Canada

- Assisted students in understanding Agile development and managing structured software processes with a strong emphasis on data accuracy and traceability
- Reviewed data-related project submissions and guided students on maintaining clean datasets, consistency, and logical analysis in software projects

PROJECTS

U.S. Flight Data Analysis | *Python, pandas, EDA, Data Cleaning*

May 2024

- Analyzed U.S. 2021 flight data to extract insights on canceled and diverted flights, average airtime, and missing departure time data using Python and pandas
- Identified trends in flight cancellations during September 2021 and quantified diverted flights for targeted November windows
- Calculated average airtime for specific routes and handled missing data effectively to clean noisy CSV datasets
- Used Jupyter/Colab to present modular notebooks on sub-tasks: cancellations, diversions, airtime, and missing data detection

GCP Data Streaming ETL Pipeline | *GCP, BigQuery, Cloud Functions*

Dec. 2022

- Built a cloud-native ETL pipeline using GCP Cloud Functions to process Amazon book review data from Cloud Storage to BigQuery
- Optimized payload sizes and trigger timings, improving pipeline efficiency by 40%

QueryQantify - RA Query Estimator | *Python, SQL Estimation, Query Optimizer*

Jan. 2024

- Built a Python-based system to estimate output sizes of RA queries using statistical metadata
- Simulated database optimizers to compute intermediate result sizes, aiding in query planning and cost estimation

Network Flow Optimization | *Graphs, Algorithms, Python*

Dec. 2023

- Implemented Ford-Fulkerson with different path strategies; benchmarked on simulated traffic networks (200–500 nodes)
- Analyzed performance and capacity bottlenecks across randomized datasets

CERTIFICATIONS

Google Data Analytics Professional Certificate — Coursera