Parsa Bahraminejad

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Education

University of Waterloo — Waterloo, Ontario
Honours Computer Science, Co-op; GPA: 4.00/4.00 — *Sep 2023 - Anticipated*
*Activities: Local International Collegiate Programming Contest Participant – **ICPC***

Skills

Languages: C/C++, Python, Java, TypeScript, Golang, SQL, JavaScript, Bash
Frameworks: Next.js, React, Pandas, PySpark, Spark, GitHub Actions, Django
Tools: ETL, Git, Docker, Kubernetes, SQLServer, Azure Synapse, Databricks, Snowflake, S3, EC2

Experience

Cosmos Software Inc. — Toronto, Ontario
Data Engineer — *Apr 2023 – Present*
- Generated **50** years of data in **30** minutes with Python-configured Date Dimension, optimizing efficiency
- Developed migration plan from **on-premise SQL** servers to **Databricks** within **Medallion Architecture**
- Deployed **Databricks ETL** with error handling, logging, and checkpointing, enhancing processing reliability
- Conducted and presented an analysis of **Microsoft Fabric** aligning with budget constraints to the business

Allame Helli 1 High School — Remote
Senior Computer Science Instructor — *Jul 2020 – Aug 2021*
- Instructed 15 **IOI** aspirants on **Data Structures** & **Algorithms**, sharpening analytical and strategic thinking
- Delivered comprehensive advanced **C++/C** courses, substantially enhancing students' problem-solving skills
- Enhanced curriculum with **Dynamic Programming** & **Graph Theory** for improved computational prowess

Codeforces — Toronto, Canada
Principal Contest Architect — *Jan 2021 – May 2021*
- Engineered problems and solutions for a global [Codeforces](#) programming [contest](#), engaging +**24,000** participants
- Assessed the quality of the test data and the problem statements to ensure an equitable and high-quality contest

Awards & Achievements

Canadian Computing Olympiad – CCO — *May 2023*
- Ranked amongst the **top 20** Canadian students invited to the Canadian Computing Olympiad, a prestigious event that serves as a qualifier for the International Olympiad in Informatics (**IOI**)

Bronze Medalist - National Informatics Olympiad — *Sep 2021*
- Ranked **25th** out of **16,000** participants, highlighting exceptional informatics proficiency on a national level.

UofT International Scholar Award Recipient — *Mar 2023*
- Candidate of a scholarship valued at $100,000 offered to top students upon admission to the University of Toronto

Master Rating - Codeforces.com — *Sep 2021*
- Competed in +**40** programming contests and successfully solved more than +**1,400** problems in **C++** & **Python**

Olympiad Competitor - 30+ Contests
- Participated in +30 **International** and **National** Olympiad Competitions such as **USACO**, **JOI**, **BOI**, **CEOI**, **APIO**, **INOI**, **POI**, and **ROI**

Projects

UWVisualPlanner | 🎧
- Developing a **Next.js/Django**-based web app for UWaterloo course scheduling with a real-time visual calendar

Montana - A Fun Discord Bot | 🎧
- Built a Python-based Discord bot deployed on **Heroku**, enhancing online class participation for +**500** users with interactive features.

Frameworks for the Snowflake Data Cloud | 🎧
- Streamlined object creation and facilitated cost analysis in the **Snowflake Cloud** by developing frameworks and **SnowSQL** scripts, resulting in a **30%** increase in operational efficiency