

CHENTHURAN (CHENTHU) SIVANANDAN

Windsor, Ontario N9G 3A7 ▪ 514-265-8621 ▪ chenthuransivanandan97@gmail.com ▪ github.com/chenthu97

SOFTWARE ENGINEER / DATA ENGINEER

Several years of experience as a Software/Data Engineer. Strong skills in a number of technology systems and tools, including Scala, Python, Java, and SQL. Consistent record of contributing to improvements in areas such as data accuracy and error reduction.

- Experience in setting up new data pipelines and refactoring old data pipelines.
- Background in establishing various testing and CI/CD infrastructures using multiple tools.
- Skilled in learning new technologies quickly and applying this knowledge to various initiatives.
- Frequently go above and beyond for scenarios such as fixing a problem or meeting a deadline.
- Write clean code that is easy for developers to understand, as well as reusing code when applicable.
- Collaborate effectively with team members and help others with technologies outside their expertise.

Selected Knowledge & Skill Areas:

Software Engineering & Development Lifecycle • New & Emerging Technologies • Coding/Code Turnovers • Escalated Problem Resolution • Requirements Gathering & Analysis • Data Optimization • Systems Testing & Troubleshooting • Client Communications • Interactions with Upper Management

Technology Summary:

Scala, Python, SQL, Java, Jenkins, Git, Json, DB2, MySQL, Linux, Bash

PROFESSIONAL EXPERIENCE

MORGAN STANLEY – Montreal, Quebec – 2020-2023

Software/Data Engineer (contracted through Wiley Edge and Procom)

Worked on fluctuating assignments within an on-call support rotation environment, including resolving production issues and performing code turnovers (test environment to production). Used Scala, Python, SQL, Java, Angular, Bash, Spark, and Autosys on projects, ensuring on-time and high-quality completion.

Addressed and resolved production outages in a timely manner, ensuring smooth flow of operations. Assisted team members who were unfamiliar with a specific technology.

HIGHLIGHTS:

- **Value Adjustment (VA) Values** – Increased data accuracy by **20%**. Wrote code to obtain VA values using Scala vs. Perl (code created a file that contained VA values) and loaded the file into a DB2 table. Strats were highly satisfied with the new data and results.
- **Mono_edts** – Created a new git repository by combining 3 existing git repositories and decommissioning 3 others. Configured the CI/CD infrastructure, created the new builds using Jenkins, and performed 1 month of testing prior to the production phase. Optimized the pull request build by adding tests.

- **Automated Email Script** – Set up a new process that enabled developers to automate emails (using Python and json), implementing multiple changes due to updated requirements from upper management. Saved time for developers to use on more important tasks.
- **Wits Testing Framework** – Decreased errors by **5%** through repairing a bug in the newly built testing framework that had prevented the framework from functioning correctly. Modified the Bash and Springboot code, ensuring less errors in the development database. Earned praise from upper management regarding the project.
- **pd_ir_lsm_leg_load** – Ensured proper loading of table by creating another file that contained the same data using Scala, as well as setting up the infrastructure to load the data to a table using SQL. Subsequently, implemented modifications to the SQL code to remove the duplicates first and change types.

NUANCE COMMUNICATIONS (currently owned by Microsoft) – Montreal, Quebec – 2019
Speech Science Intern

Worked on a Topic Modelling project with a team of speech scientists, with the primary goal of optimizing costs for a client. Used Python, Pandas, Scikit-learn, and Matplotlib as part of the initiative.

HIGHLIGHTS:

- **Topic Modelling** – Enabled the clients to reduce costs by **5%** through project contributions.

TRUBA.NEWS – Montreal, Quebec – 2018
Data Science Intern

Worked closely with a team of data scientists on planning and initiating the redesign of an existing clustering algorithm, utilizing k-means clustering with multiple passes, tf-idf, and stemming.

HIGHLIGHTS:

- **Algorithm Redesign** – Contributed to the company's key product launch through efforts on algorithm revamp (enabling grouping of similar news articles).

EDUCATION & PROFESSIONAL DEVELOPMENT

Bachelor of Science in Computer Science
MCGILL UNIVERSITY – Montreal, Quebec

- **Project: Montreal Tour Guide Database** – Scored within the top **95%** of students in building a class project to track data for a Montreal tour company. Utilized Java, DB2, and JavaFX.