

Rola Dali, PhD

Data Wrangler

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<https://rdali.github.io/>

SUMMARY

Data wrangler, software developer and problem solver: a research scientist by training, I use various tools to extract actionable information from data.

EXPERIENCE

Senior Software Developer

Local Logic

10/2020 - Ongoing Montreal

Local Logic is a location intelligence company.

- Leading the migration of a monolithic legacy project to microservices.
- Driving the re-structuring of data processes at Local Logic.
- Architected & built End-to-End ETL pipelines and customer facing APIs.
- Halved geospatial queries runtime to meet SLAs.

Bioinformatics Specialist – Tech. Dev. Team

Canadian Centre for Computational Genomics (C3G)

2017 - 2020 Montreal

C3G is a research entity: develops tools & analyzes data for academics.

- Developed 3 End-to-End pipelines in ~30% of the expected time.
- Automated testing & monitoring using Jenkins freeing up team time.
- Analyzed datasets for international projects around the globe.
- Established bi-annual training workshops that taught hundreds of academics how to quality control, process and visualize data.

PhD candidate in NeuroScience & Bioinformatics

McGill University, Computer Science Department

2011 - 2017 Montreal

- Developed RobusTAD, a tool to analyze DNA 3D structure.
- Designed/conducted/analyzed experiments to understand brain development & disease.
- Developed software tools for collaborators to view and analyze data.
- Communicated information regularly to a non-technical audience.

Research Intern

Palmerston North University

2010 - 2010 New Zealand

- Analyzed data in the laboratories of Dr. Barry Scott and Dr. Murray Cox to understand the relationship between fungus and plants, which is important for New Zealand's economy.

ACHIEVEMENTS



Productive & Efficient

Passionate problem solver that completes projects in a fraction of the allocated time.



Thinker

Ranked in top 10% in Canadian national academic competitions.



Academic Researcher & Open Source Contributor

Co-authored 16 peer reviewed scientific articles (available in Google Scholar). Contributed to several open source projects: RobustR, GenPipes, MultiQC, HiCUP.

STRENGTHS



Organized Modular Solver

Good at debugging problems by breaking issues into smaller, manageable pieces. Thus, not intimidated by new tasks.



Data Centric Career

Experience in all levels of the data lifecycle from producing and collecting raw data to serving insights via APIs.



Communication Skills

Good communicator: able to extract & convey information effectively



Eye for Detail

Detail oriented, consistent processing & execution



Experienced Writer

Very Good at writing data analysis reports & project grants

EXPERIENCE

Research Intern

University of Ottawa

📅 2009 - 2010 📍 Ottawa

- Worked with Dr. Mona Nemer, **current Chief Science Advisor of Canada**, to understand heart development & disease.

Research Intern

University of Ottawa

📅 2008 - 2009 📍 Ottawa

- Collected & analyzed data in the laboratory of Dr. Rees Kassen to understand bacterial & fungal evolution.

SELECT PROJECTS

Monolith to Microservices Migration

Leading the re-architecture of the analytics platform at Local Logic from a python monolith running on a single server to a serverless architecture in the AWS cloud, using MWAA for orchestration and Fargate for processing.

Marketstats Data from Provider to Consumer

Owned the Marketstats project: interfaced with data vendor, built an ETL pipeline to process data (lambda, S3 Select, RDS) to the API that aggregates the data (lambda behind API gateway).

CERTIFICATIONS

AWS Certified Solutions Architect - Associate (SAA)

Dec 2021-2024

AWS Certified Developer - Associate (DVA)

Jan 2022-2025

AWS Certified Data Analytics - Specialty (DAS)

Jan 2022-2025

AWS Certified Machine Learning - Specialty (MLS)

Feb 2022-2025

AWS Certified Database – Specialty (DBS)

March 2022-2025

FIND ME ONLINE



GitHub

www.github.com/rdali



LinkedIn

<https://www.linkedin.com/in/rola-dali-phd-63b7133a/>

SKILLS

Software & Coding

Python

R

Java

Bash

SQL

HPC/AWS Cloud

CircleCI/Jenkins

Docker

IaC/CDK

Serverless

Data Wrangling

Quality Control

Analytics

Pipeline Development

Visualization

Math & Statistics

Big Data

Machine Learning

EDUCATION

Certificate in Data Science and Machine Learning

McGill University

📅 2018 - 2019

GPA

4.0 / 4.0

PhD in Neuroscience & Bioinformatics

McGill University

📅 2011 - 2017

GPA

4.0 / 4.0

Honors & specialization in Biochemistry

University of Ottawa

📅 2006 - 2010

GPA

9.8 / 10

MY LIFE PHILOSOPHY

"We are what we repeatedly do. Excellence, then, is not an act, but a habit."