

JORDAN VANI

Edmonton, Alberta Canada

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Professional Experience

Sayari Labs

Mar. 2018 – Present

Senior Vice President of Engineering

Remote / Washington, DC

- Supported \$40M Series C fund raise and \$228M acquisition by TPG
- Led Product, Application, and Infrastructure teams in the design and development of a graph data platform
- Developed custom data products to support business development, contributing to securing multiple high-value contracts
- Staffed and managed several remote Data Engineering and Solutions Engineering teams

Director of Data Science

- Implemented agile project management with CI/CD integration ensuring comprehensive testing, documentation, and code reviews across multiple codebases
- Provided mentorship and professional development for Data Engineers while instituting a recurring internship program
- Planned, executed, and iterated on product features including risk identification (property and graph-based risk), geospatial functionalities (search, visualization, and risk), integration of trade data, and redesign of a bulk data product

Data Scientist

- Implemented a scalable cloud-based web crawling framework to collect terabytes of public records
- Took ownership of an in-house entity resolution framework and continuously iterated on implementation with feedback
- Created a directed multigraph representing corporate ownership and control encompassing billions of entities and relationships, designed a denormalized database schema for integration into a web application, and executed the ETL
- Deployed self-serve analytics services accessible to both technical and non-technical users
- Implemented an orchestration framework to programmatically author, schedule, and monitor data flows

NYU Center for Urban Science + Progress

Apr. 2017 – Feb. 2018

Assistant Research Scientist

New York, New York

- Trained and deployed a Faster-RCNN to detect pedestrian traffic across New York City traffic cameras
- Conducted data analysis (regression and clustering techniques) and produced data visualizations for publication

Paragon Soil & Environmental Consulting Inc.

Feb. 2014 – Jul. 2016

GIS Analyst

Edmonton, Alberta

- Managed databases and coordinated geospatial data collection with field staff
- Performed spatial analyses and designed data visualizations for the long-term planning of land reclamation projects
- Designed and developed company website

University of Bayreuth

May 2013 – Jul. 2013

DAAD Research in Science and Engineering Internship

Bayreuth, Bavaria

- Contributed to ecological research and edited manuscripts for publication in academic journals
- Independently conducted a research project assessing drought memory of beech trees

Education

New York University

Sep. 2016 – Aug. 2017

Masters of Science, Applied Urban Science and Informatics

New York, New York

Capstone Project: Predicting misdemeanor failure to appear with the NYC District Attorney's Office

University of Alberta

Sep. 2010 – Apr. 2014

Bachelor of Science, Earth and Atmospheric Science & Biological Science

Edmonton, Alberta

Graduated with Distinction, First Class Standing, and on the Dean's Honor Roll

Technical Skills

Languages: Python, Scala, SQL, Javascript, HTML

Tools: Spark, Airflow, Docker, Kubernetes, Helm, NiFi, Scrapy, Flask, React, REST, GraphQL, Git, GitHub Actions, Google Cloud Platform, Amazon Web Services, PostgreSQL, SQLite, BigQuery, Cassandra, Elasticsearch, Neo4j, Memgraph, Tigergraph, MongoDB, Redis, RocksDB

Publications

Dobler, Gregory, Jordan Vani, and Trang Dam. 2021. "Patterns in Urban Foot-Traffic Dynamics." *Computers, Environment and Urban Systems* 89. doi:10.1016/j.compenvurbsys.2021.101674. [physics.soc-ph]