# Prithaj Nath

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## Technologies

**Languages:** Python, SQL, Ruby, JavaScript

**DevOps/Cloud:** Docker, Terraform, Kubernetes, AWS EC2/Lambda/ELB/EKS/SNS/SQS

**Databases:** PostgreSQL, BigQuery, Snowflake, Redshift

## Education

**University Of Vermont** *Aug. 2024 to present*
*MS in Computer Science*

**SUNY Plattsburgh** *Aug. 2013 to May 2017*
*BS in Computer Science*

## Experience

**Software Engineer** *New York, New York*
*Singuli, Inc* *May 2022 to May 2024*

- Reduced median client onboarding time by 80% by impleneting ETL pipelines to daily ingest sales, inventory and revenue data using Apache Airflow, Python and SQL
- Improved mean forecast accuracy by 20% by adding sanity checks to ensure data quality for machine learning algorithms like k-means clustering and time-series regression
- Increased number of prospective clients by 30% by implementing a competitor dashboard by analayzing inventory, revenue and sales data from clients' competitors using Flask, SQL, PostgreSQL and Redshift
- Improved API response time by 50% (10s to 4.8s) through PostgreSQL query optimization that enabled real-time reports on historical sales and inventory data
- Reduced Redis memory footprint by 60% by re-factoring background job module
- Eliminated database migration errors in CircleCI by creating a Bash script that validates the migration tree on every new pull request

**Integration Engineer** *Burlington, VT*
*Faraday, Inc* *June 2019 to May 2022*

- Implemented ETL pipelines on Kubernetes (EKS) to ingest customer data and geospatial data from 50+ data sources using Python, Ruby, SQL and BigQuery
- Implemented micro-services in Python and Ruby to seed Facebook lookalike audiences with AI powered cohorts and increased client ROAS by 50%
- Implemented a micro-serivce in Python to deploy AI powered bid modifiers to Google Ads at the zip code level and increased clients' ad campaign conversion rates by 38%

**Jr Data Scientist** *Burlington, VT*
*IXIS Digital* *Aug. 2017 to Sept. 2019*

- Analyzed e-commerce data from Google Analytics and Adobe Analytics and generated ad-hoc reports using R, SQL and Python
- Implemented CI/CD pipelines for bare metal servers using Docker and GitLab CI
- Built a Python tool to concurrently scrape 100+ sites and keep track of changes in critical DOM elements

## Projects

**My Secret Santa**

- Launched a top 20 web app on Product Hunt for highly randomized Secret Santa draws that reached 100+ users from US, Canada, India, Ukraine, France and more
- Implemented features like OAuth login, notifcations, anonymous messaging etc using Flask, SQLAlchemy, Celery, Redis and PostgreSQL