

# Sanjith Venkatesh

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American Citizen

## WORK EXPERIENCE

### Shift4 Payments

Las Vegas, NV

#### Data Engineer

February 2024 to Present

- Harmonize 7 disparate product databases from acquired companies to ensure reliability and consistency in a unified database
- Automate data validation through a Python and Node JS scripts to check for data anomalies between legacy and Salesforce databases, reducing errors by 75%
- Collaborated with various product teams and business stakeholders to understand data requirements and provide timely updates on migration of production data

### Veeva Systems

Pleasanton, CA

#### Data Engineer

January 2022 to October 2023

- Constructed data pipelines to allow clients to ingest data from their databases and other company products to provide tailored solutions to various problems
- Maintained and extended a Python SDK to allow developers to access and modify data stored on S3 and Redshift
- Developed AWS Redshift stored procedure to migrate 10 TB worth of tables in less than 2 hours using also AWS SQS, Glue, and Java for backend REST APIs
- Converted Pandas DataFrames into AWS Redshift tables by interpreting data types in Python and constructing appropriate SQL query to execute using psycopg2
- Enhanced data platform in Java to allow for multiple SQL statements to generate custom table metadata, decreasing generation times by 85%
- Optimized existing customer databases by writing internal Python logic to detect where columns can be trimmed, decreasing table sizes by 24%
- Wrote help documentation for Python SDK through Jupyter Notebooks to demonstrate common use cases as well as how to get started regarding AWS infrastructure

#### Software Engineer

July 2020 to December 2021

- Automated manual Git workflows, cutting processing times by 80% with Jenkins pipelines
- Generated new pipelines for the automatic creation of isolated environments automatically through Jenkins using Terraform and Python
- Created JSON metadata modification scripts in Python for dev-integration environments, maintaining the sanity of each file to ensure no duplicate files
- Developed database migration scripts in bash to assist in migrating 50+ customer databases to new product versions during production deployments
- Assisted with weekly production deployment preparation and work with IT and development teams to ensure no customer disruptions

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## SKILLS

Experience: **Python** **Java** **Jenkins** **Groovy** **Git** **MySQL** **AWS EC2, S3, SQS, SNS, Redshift, Glue, Lambda, Athena** **R**

Exposure: **HTML/CSS** **NodeJS** **Express JS** **Neo4J** **C++** **React JS**

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## EDUCATION

### University of California, Irvine

2016 - 2020

B.S. Software Engineering, B.S. Data Science, Irvine, CA

Co-Founder - Blockchain @ UCI

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## PROJECTS

Kyokai - <https://github.com/SanjithVenkatesh/kyokai>

A web scraping Python library allowing the user to retrieve sumo data in a Pythonic manner