

YUGANDHAR DESAI

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Education

MS in Computer Science

Sep 2023 – June 2025

Santa Clara University GPA : 3.85

Santa Clara, CA

Relevant Coursework: Computer Networks, Computer Graphics, Computer Architecture

BTech in Computer Science & Engineering

Aug 2017 – Aug 2021

NIIT University

Rajasthan, India

Relevant Coursework: Design and Analysis of Algorithms, Data Structures, Machine Learning

Work Experience

NTT Data

Aug 2021 – April 2023

Cloud Engineer - ETL

Pune, India

- Implemented, Maintained & Deployed ETL/ELT Pipelines.
- Automated Job Scheduling process using Python & Matillion workflows, resulting in 40% reduction in overall processing time.
- Implemented CDC framework in Snowflake and Matillion, leading to improved data quality and significant cost savings.
- Successfully migrated the legacy SQL Server database to Snowflake, a cloud data warehouse, including all stored procedures, triggers, and ETLs.
- Improved query performance by upto 40% and eliminated redundancy in the legacy data model.

Symphony Fintech

Jan 2021 – July 2021

Software Developer Intern

Pune, India

- Contributed to development of an iOS mobile trading application used by multiple clients.
- Introduced Updates Prompt to encourage users to upgrade to the latest app version.
- Integrated Biometric Authentication with Touch ID and Face ID, improving application security.
- Conducted a Proof of Concept (POC) for Whitelabeling applications, catering to diverse client needs.

Technical Skills

Languages: Python, Go, SQL, Bash, JavaScript, TypeScript, Swift, C++, C, HTML, CSS

Virtualization & Containerization: Docker, Kubernetes, QEMU

Frameworks & Libraries: Flask, OpenCV, Django, Numpy, Pandas, FastAPI, Apache Airflow, PySpark, Hugo, Express.js, Node.js, GTK

Databases & Datawarehouses : MySQL, Snowflake, Microsoft SQL Server, SQLite, PostgreSQL, MongoDB (NoSQL), Neo4j

Tools : Git, Postman, Github Actions, Jenkins

OS : Unix/Linux, MacOS, Windows

Other: REST APIs, OOP, Shell Scripting, AWS EC2, OAuth, NLP

Projects

Literature Research Tool | *Python, Flask, JavaScript, Bash, HTML, CSS*

- Built a Python-based full-stack web app for academic literature research using Flask and various web technologies.
- Employed web scraping to gather article data from Google Scholar and other sources, while implementing proxy server rotation for uninterrupted data retrieval and system efficiency.

GRAS - Git Repositories Archiving Service | *Python, Java, ANTLR, JavaScript*

- GRAS is an Interactive CLI tool capable of mining data from VCS, JIRA, and Pipermail. Developed for researchers who solve various mining software repositories challenges.
- Added built-in anonymous identity merging component and file dependency analyzer (ANTLR4 compatible).

Twitter Data Pipeline | *Python, Apache Airflow, Docker, PostgreSQL, Amazon S3*

- Implemented end-to-end Data Engineering Pipeline using Python to extract, transform, and deploy Twitter data on Apache Airflow with Docker, integrating PostgreSQL database within Docker and Amazon S3 for storage, ensuring seamless setup from scratch.

Publication

Studying Multifaceted Collaboration of OSS developers and its impact on their bug fixing performance

Asia-Pacific Software Engineering Conference (W) | Data Mining, Mining Software Repositories, Software Engineering

- Developers fix bugs through discussions, creating Developer Social Networks (DSN). We extended DSN to Multi-layer DSN (MDSN), achieving a Pearson correlation coefficient of up to 0.74. This MDSN helps identify crucial developers in systems like Eclipse and Netbeans.