

YUGANDHAR DESAI

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Education

MS in Computer Science

Sep 2023 – June 2025

Santa Clara University GPA : 3.85

Santa Clara, CA

Coursework: Computer Networks, Computer Graphics, Computer Architecture

BTech in Computer Science & Engineering

Aug 2017 – Aug 2021

NIIT University

Rajasthan, India

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

Work Experience

NTT Data

Aug 2021 – April 2023

Cloud Engineer - ETL

Pune, India

- Developed, Maintained & Deployed ETL (Extract Transform Load) Pipelines.
- Implemented Job Scheduling framework using Python & Matillion workflows, resulting in 40% reduction in overall processing time.
- Implemented CDC (Change Data Capture) framework in Snowflake and Matillion, leading to improved data quality and significant cost savings.
- Successfully migrated legacy Microsoft SQL Server database with 50 TB of data to Snowflake, a cloud data warehouse, including all stored procedures, triggers, and ETLs, resulting in a 30% reduction in infrastructure costs.
- Optimized query performance by up to 30% and eliminated redundancy in the legacy data model, resulting in a 25% increase in report generation speed.

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 application version.
- Integrated Biometric Authentication with Touch ID and Face ID, improving application security.
- Created a Proof of Concept to automate Whitelabeling in iOS apps using Xcode and Swift. Simplified Xcode build process for one-click generation of customized applications.

Technical Skills

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

Virtualization & Containerization: Docker, Kubernetes, QEMU

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

Databases & Datawarehouses : MySQL, Snowflake, Microsoft SQL Server, SQLite, PostgreSQL, MongoDB , Neo4j, Azure SQL Database

Tools : Linux, Git, Postman, Github Actions, Jenkins

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

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.
- Utilized web scraping to gather article data from Google Scholar and other sources.
- Implemented proxy server rotation to manage rate limiting and ensure uninterrupted web scraping and data retrieval

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).

Google Landmark Recognition | *Python, Flask, Machine Learning, Javascript*

- Annotated landmarks in the Google Landmark Dataset on Kaggle with accurate labels.
- Deployed a Flask-based application for Landmark Recognition, capable of accurately predicting labels for input images of landmarks.
- Utilized the DELG (Deep Local and Global features) model (Cao et al., 2020) for efficient and effective landmark retrieval.

Publication

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

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

- 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.