

# Ashish Sunny Abraham

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## SKILLS

- **Frontend Technologies:** HTML5, CSS3, JavaScript, TypeScript, React.js, Bootstrap
- **Backend Technologies:** Java, Python, C#, .NET, Spring Boot, Junit, Flask, PyTest, Microservices, REST APIs, MVC, scikit-learn, LangChain
- **Database Technologies:** PostgreSQL, MySQL, MS SQL Server, BigQuery, Redis
- **Tools:** GCP(GCS, BigQuery), AWS(S3, ECS, Bedrock, SQS, Lambda), GitHub, CI/CD, Agile/Scrum, Power BI, Tableau, Jira

## WORK EXPERIENCE

### Thomson Reuters

Software Engineer

Frisco, Texas

October 2024 – Present

#### GST - DataQuery (Datalake) Platform

- Designed and implemented an enterprise-grade ETL platform enabling end-to-end analytics over 1M+ tax return and eFile datasets.
- Developed ingestion services using C#/.NET, SQL schemas, and AWS queue service based scheduling to drive tax data extraction.
- Unified extraction, transformation, and access pipelines using GCP - Airflow, BigQuery, and GCS to improve data reliability.

#### ETL & Data Engineering Pipeline

- Developed tax return and eFile extractors performing normalization and metadata enrichment using C#/.NET and SQL-based schemas.
- Engineered multi-stage data transformations moving datasets from landing to final datamart using Airflow and dbt across 3 layers.
- Generated optimized Parquet datasets and exported them to GCS, supporting 5TB+ analytics and bulk exports to client storage.

#### APIs, Data Access & AI Integration

- Implemented OData and REST APIs using C#/.NET Core enabling Excel-based analytics and secure modified tax return retrieval.
- Built asynchronous backend APIs translating 500+/day frontend queries into BigQuery jobs and CSV reports.
- Integrated Python-based MCP servers with OData APIs to enable natural-language querying over tax datasets via internal AI agents.

#### Hello GST - Onboarding Tool

- Built AI onboarding assistant centralizing GST documentation, accelerating new-hire ramp-up using vector search and MCP APIs.
- Engineered a multi-modal RAG pipeline indexing text and documents from wikis, GitHub, and SharePoint into a vector database.
- Developed an extensible MCP server enabling plug-and-play AI agent access to GST knowledge via API-first integration.

### Software Engineering Intern

May 2023 - August 2023

#### Customer Feedback Analytics Platform — Backend Engineering

- Developed backend services using Python, Django, SQL databases, and Google Cloud Storage to support analytics workflows.
- Implemented CI/CD pipelines using GitHub and Jenkins to automate builds, testing, and improve deployment reliability.
- Collaborated with senior engineers to implement and validate data ingestion and processing features in production environments.

### Thomson Reuters

Hyderabad, India

Associate Software Engineer

November 2020 – August 2022

#### Frontend Modernization & Full-Stack Development

- Migrated a legacy JavaScript codebase to TypeScript, reducing post-release defects by 40%.
- Refactored UI components into reusable TypeScript modules, accelerating feature delivery and improving maintainability.
- Developed full-stack features using C#, .NET Core, SQL Server, and ReactJS, improving application stability and user experience.

#### Production Support & Environment Monitoring

- Built C# .NET REST APIs and SQL Server dashboards to monitor 50+ production and non-production environments.
- Integrated monitoring and logging using Dynatrace, Grafana, and Datadog to improve system visibility and alerting.
- Collaborated within Agile teams using Jira for sprint tracking and GitHub for source control management.

## EDUCATION

### UNIVERSITY OF FLORIDA

Gainesville, FL

Master of Science (M.S.); Major in Computer and Information Sciences (GPA: 3.6 / 4.00)

August 2022 - May 2024

### JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

Hyderabad, India

Bachelor of Technology (B.Tech.); Major in Computer Science Engineering (GPA: 9.1 / 10.0)

August 2017 - July 2021

## PROJECTS

#### Maternal Health Risk Prediction Model | Python · Feature Selection · Artificial Intelligence (AI) · Neural Networks

- Built and evaluated predictive models identifying maternal health risks, achieving ~85% test accuracy using Python.
- Performed feature selection and compared multiple ML algorithms to design a cost-effective smart healthcare system.

#### Conversational LLM-RAG model Chatbot | Python · LangChain · Streamlit · ChromaDB · OpenSearch · RAG

- Developed a retrieval-augmented conversational system enabling domain-specific Q&A over proprietary datasets.
- Reduced documentation search time by ~50% by integrating semantic retrieval and response generation through a RAG pipeline.

## ADDITIONAL INFORMATION

- Awards: Received 'Technical Excellence Award' at Thomson Reuters Geek Sprint Hackathon; Awarded graduate scholarship at UF

- Activities: Teaching Assistant (Java Programming, Database Systems) at UF; Member of Soccer and Table Tennis teams at CVRCE