

# Ashish Sunny Abraham

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## EXPERIENCE

### THOMSON REUTERS

Frisco, TX, USA

#### Software Engineer

Oct 2024 – Present

- Engineered a fault-tolerant, cloud-based ETL pipeline using C#, SQL, AWS S3, and Fivetran, processing terabytes of tax and accounting data into Google Cloud Storage, enhancing system reliability and scalability for high-volume data processing.
- Developed and deployed high-performance OData APIs using C#, .NET Core, Google Cloud Endpoints, and Apigee, optimizing data retrieval from Google BigQuery and reducing query latency by 30%, supporting millions of requests per day.
- Designed and optimized distributed data processing workflows, leveraging BigQuery, LookML, and SQL to streamline real-time analytics, increasing query efficiency by 25% and enabling sub-second latency for dashboard visualizations.
- Implemented containerized microservices using Docker and Jenkins, enhancing scalability and reducing deployment time by 40%, ensuring fault tolerance in cloud environments.
- Optimizing distributed data processing with caching and load balancing to reduce API response times by 35%.

#### Software Engineering Intern

May 2023 - Aug 2023

- Lead the development of a new and sophisticated Customer Feedback Analysis System using C#.NET, AWS S3, and Microsoft SQL Database in the backend, resulting in an 10% increase in customer satisfaction ratings.
- Increased efficiency of feedback by automating the data collection and analysis process through the Customer Feedback Analysis Dashboard using Power BI for data visualization and by refining SQL stored procedures.

### THOMSON REUTERS

Hyderabad, TS, IND

#### Associate Software Engineer

Nov 2020 – Aug 2022

- Designed an alert and log monitoring system using Datadog and collaborated with the tech-ops team to ensure seamless operation of API Endpoints of load balancers and servers, enhancing system performance by 40 % .
- Applied JavaScript and HTTPS API calls to develop and test URL security encoding with enhanced security measures, ensuring alignment with W3C standards for both REST and SOAP APIs, and achieving a success rate of 98%.
- Collaborated with the DevOps team to implement a CI/CD pipeline using Jenkins, resulting in a 30% reduction in deployment time and a 20% decrease in deployment errors, leading to improved code quality and faster release cycles.
- Completely executed a Language Migration POC, transitioning project codebase from JavaScript to TypeScript, resulting in a 40% decrease in post-release bugs and errors, and optimizing development environment efficiency.

## EDUCATION

### UNIVERSITY OF FLORIDA

Gainesville, FL, USA

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

Aug 2022 - May 2024

### JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

Hyderabad, TS, IND

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

Aug 2017 - Jul 2021

## PROJECTS

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

- Developed a feature selection model using IoMT data to predict maternal health risks, enhancing predictive accuracy.
- Evaluated ML models to improve performance and inform cost-effective IoMT device design for simplified healthcare monitoring.

### Real Time Transaction System | Java · Spring Boot · Maven · JUnit · MySQL · Docker

- This project is an end-to-end bank ledger system utilizing the event sourcing pattern to maintain an immutable transaction history.
- Implemented thorough unit testing and integration testing using JUnit to ensure the reliability of the system.

### E – mall space management system | Java · Spring Boot Framework · React JS · Axios Libraries · MySQL database

- Built a virtual space management system in microservices architecture, enabling mall staff to book spaces via API calls.
- Utilized React JS for frontend, Spring Boot Framework and MySQL as backend for efficient functionality and data management.

## SKILLS

**Programming & Frameworks:** C, C++, Java, Python, C# .NET, SQL, JavaScript, React.js, Spring Boot, .NET Core, REST API, OData

**Data & Cloud Technologies:** Google Cloud Platform, BigQuery, AWS S3, Oracle Database, Fivetran, Docker, Kubernetes, Jenkins.

**Tools & Analytics:** Git, GitHub, Visual Studio .NET, Postman, Datadog, Tableau, Power BI, JUnit.