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EMPLOYMENT

Software Engineer | Mar 2020 – June 2022 (Promoted)

OptumInsight India Pvt. Ltd.

Associate Software Engineer | July 2018 – Feb 2020

Chennai, India

July 2018 – June 2022

LifeScience Data warehouse (LSDW)

- Completed a proof-of-concept on the migration of an all-encompassing data pipeline from Oracle to AWS Redshift, with a colleague.
- Migrated 400+ SQL stored procedures to AWS Redshift, in 8 months, as a 4-member team.
- Improved data pipeline runtime, from 67 hours in Oracle to 50 hours in Amazon Redshift.

Crimson Medical Referral (CMR)

- Migrated the application (included around 50 sub-projects) from .NET Framework to .NET Core 3.1 and redesigned it for the cloud (Azure), in a team of 4. The re-engineering involved code decluttering and refactoring, breaking into multiple microservices, and upgrading libraries and tests.
- Moved Database Migration tool from RedGate SQL to DbUp, an open-source tool, to save cost.
- Introduced Jenkins pipeline to automate builds, tests, SONAR code quality and FORTIFY security scans, unit test coverage report generation, and established a template for Jenkins pipeline for all of our microservices.
- Simplified front-end code from a .NET framework project to a static website hosted in Azure Blob Storage and served via Azure Content Delivery Network(CDN), which reduced the build artifact size from 67MB to 19MB and the overall build and deployment time from 2 hours to 20-25 minutes.

Optum Performance Analytics (OPA)

- Migrated a Microstrategy (Business Intelligence tool) project from Oracle to Amazon Redshift as the data source.
- Established a generic approach to handle data differences caused due to differences in numeric computations in Amazon Redshift, compared to Oracle.
- Coded multiple python scripts to automate client onboarding, which leveraged Microstrategy APIs to onboard new clients onto AWS and migrate existing clients from on-prem to AWS Microstrategy instance.
- Implemented delta Microstrategy package migration to reduce release deployment time significantly.

Intern (Software Engineering)

OptumInsight India Pvt. Ltd.

Chennai, India

Jan 2018 – May 2018

- Investigated a data difference issue in our Microstrategy (Business Intelligence tool) instance based on SQL server and documented the data pipeline flow for the team.
- Assisted the QA team in adding automated tests for our web API, using the existing SoapUI tool.
- Experimented with D3.js to visualize data better to figure out possible patterns in the metrics data.

Intern (Software Engineering)

Bayer CropScience Ltd.

Thane/Mumbai, India

Dec 2016

Product Reporting Tool

- Developed an ASP.NET web application that helps generate a custom report based on the manufacturing plant data (Bayer Vapi plant).
- Implemented LDAP authentication, ability to upload plant data using CSV files, and guide step-by-step report generation based on the plant data stored in the SQL server database.

EDUCATION

VIT University

Vellore, Tamil Nadu

2014 – 2018

- Bachelor of Technology in Information Technology. CGPA: 9.34

TECHNICAL SKILLS

- **Programming languages:** C#, Python, C++, Java, SQL, HTML, CSS, JavaScript
- **Databases:** Amazon Redshift, Microsoft SQL Server, Oracle, Postgres, MongoDB
- **Cloud platforms:** Amazon Web Services (AWS), Azure
- **Frameworks:** .NET Core/Standard/Framework, ReactJS, Spring Boot
- **Tools and Technologies:** Microstrategy (Business Intelligence tool), Jenkins, Bamboo, Git, JIRA, Rally, GitHub, Bitbucket, SQL Server Integration Service (SSIS), Terraform
- **Code Editors / IDEs:** VS Code, Sublime Text, Atom, Visual Studio, SQL Server Management Studio, PostgreSQL Admin (pgAdmin), SQL WorkBench/J, IntelliJ IDEA, NetBeans, Android Studio, Eclipse.