

# ADARSH GUPTA

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## EDUCATION

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**Vellore Institute of Technology**

**Vellore, India**

**2014 – 2018**

- Bachelor of Technology in Information Technology. CGPA: **9.38/10**

## TECHNICAL SKILLS

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- **Programming languages:** C#, Python, C++, Java, SQL, HTML, CSS, JavaScript
- **Databases:** Amazon Redshift, Microsoft SQL Server (MSSQL), Oracle, MySQL, Postgres
- **Cloud platforms:** Amazon Web Services (AWS), Azure
- **Frameworks:** .NET Core/Standard/Framework, React, Gulp, SCRUM, jQuery
- **Tools and Technologies:** Microstrategy (Business Intelligence tool), Jenkins (CI/CD), Bamboo (CI/CD), Git, JIRA, Rally, GitHub, Bitbucket, SQL Server Integration Service (SSIS), Terraform, Splunk, Postman

## EMPLOYMENT

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**Software Engineer | OptumInsight India Pvt. Ltd.**

**Chennai, India**

*Promoted in 2020 to Software Engineer*

**July 2018 – June 2022**

**Crimson Medical Referral (Backend + Frontend development) – a medical referral management system to support better care coordination**

- Migrated the C# application from .NET Framework to .NET Core 3.1 and redesigned it into microservices for the cloud (Azure)
- Moved Database Migration tool from RedGate SQL to DbUp, an open-source tool, to save license costs
- Reduced the front-end build artifact size from 67MB to 19MB (**71% reduction**)
- Reduced the overall front-end build and deployment time from 2 hours to 20-25 minutes (**79% reduction**)
- Leveraged Azure Blob Storage and Azure Content Delivery Network to serve front-end as a static website
- Introduced Jenkins CI/CD pipeline to automate builds, tests, SONAR code quality and FORTIFY security scans
- Contributed to an open source logging library which we were using to log to Azure Blobs. (**Pull request link**)

**LifeScience Data warehouse (Backend) – provides analysts with insights into payers, providers and patient's data**

- Improved data pipeline runtime from 67 hours in Oracle to 50 hours in Amazon Redshift (**25% reduction**)
- Completed a proof-of-concept on the migration of a complex data pipeline from Oracle to Amazon Redshift
- Migrated 400+ SQL stored procedures to Amazon Redshift, in 8 months, as a 4-member team

**Optum Performance Analytics (Backend) – an integrated enterprise analytics platform for health plans**

- Migrated a Microstrategy (Business Intelligence tool) project from Oracle to Amazon Redshift
- Established a generic approach to accommodate differences in numeric computations in Amazon Redshift, compared to Oracle (Side project - <https://adarshgupta.github.io/Redshift-calc/>)
- Implemented delta package migration strategy in python to reduce release deployment time significantly
- Coded multiple python scripts to automate client onboarding, which leveraged Microstrategy APIs

**Intern (Software Engineering) | Bayer CropScience Ltd.**

**Thane/Mumbai, India**

**Dec 2016**

**Product Reporting Tool**

- Developed an ASP.NET (C#) web application that helps generate custom reports 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