

Amrutha Varshini Mandalreddy

Rochester, NY ♦ +1(603)921-8182 ♦ am5739@rit.edu ♦ [LinkedIn](#) ♦ [GitHub](#) ♦ [Website](#)

EDUCATION

Rochester Institute of Technology

Master of Science Computer Science; GPA: 3.92/4.00

Visvesvaraya National Institute of Technology

Bachelor of Science Electronics and Communication Engineering; GPA: 7.98/10

Rochester, NY

Jan 2020 - Dec 2021

Nagpur, India

Aug 2012 - May 2016

EXPERIENCE

Software Engineer, FactSet Research Systems | Hyderabad, India

June 2016 - March 2019

- Proficient in front-end and back-end development as well as DevOps
- Proposed and automated the data restoration between **SQL** servers and customized pre and post-restoration process
- Redesigned a containerized push application using SignalR library in **.NET** and improved the performance by 30%
- Worked on the cloud migration strategy for the department, researched and built multiple prototype alternatives for existing services using various **AWS** and **Azure Cloud services**, ex: Amazon CloudWatch vs Azure Monitor
- Administered critical infrastructure like web & SQL servers, and over 100 applications & services like Scheduler, Push, Build & Deployment, Notifications, etc.,
- Provided guidance and recommended solutions to all other teams in the department
- Created and delegated workshops, guided various teams in adopting our services
- Authored documentation for numerous applications and processes
- Envisioned and spearheaded multiple modules, services, and applications
- Mentored junior employees in the team

TECHNICAL KNOWLEDGE

Language and Frameworks: JAVA, C#, Python, C, R

Web Technologies: JavaScript, HTML, CSS, jQuery, AngularJS, Node.js, Web Services SOAP, REST

Relational Database Technologies: MySQL, SQL Server

Operating Systems: Linux, Windows, macOS

ACADEMIC PROJECTS

New York Parking Violation Analysis, Big Data

Aug 2020

- Performed Data Management, analysis, and mining on Parking Violations issued during the last four years (2017 – 2020) in New York City using **R**, **Java**, and **MySQL**

SWIFT, Computer Networks

Aug 2020

- Implemented SWIFT, a predictive fast rerouting framework (presented in SIGCOMM'17) using Mininet, MiniNEXt, OVS, and Quagga
- SWIFT was claimed to be 98% faster than **BGP**, and we achieved around 90% efficiency compared to BGP, hence proved the claim.

Language Classification between English and Dutch, Artificial Intelligence

Dec 2020

- Implemented language classification using decision trees and boosted decision stumps in **Python** to categorize English and Dutch.

COURSEWORK: Advanced Object-Oriented Programming (JAVA), Computer Networks, Big Data, Algorithms (JAVA), Parallel Computing, Artificial Intelligence (Python), Data Structures

ACHIEVEMENTS:

- Received the “*Star Employee of the Quarter*” award twice during my time at FactSet
- Received 40% scholarship for Master of Science program at RIT