

Amrutha Varshini Mandalreddy

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EDUCATION

Rochester Institute of Technology

Master of Science Computer Science; GPA: 3.82/4.00

Rochester, NY

Jan 2020 - Dec 2021

Visvesvaraya National Institute of Technology

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

Nagpur, India

Aug 2012 - May 2016

TECHNICAL KNOWLEDGE

Languages: JAVA, C#, Python, R, SQL Server, MySQL, Powershell

Web Technologies: JavaScript, HTML, CSS, jQuery, Angular.js, Web Services SOAP, REST API

Cloud and Infrastructure: EC2, Kubernetes, Docker, CloudWatch, Azure Monitor, S3, Lambda

Tools: Git, Jira, IntelliJ, Visual Studio, TFS, RStudio, MySQL Workbench, Wireshark, PyCharm, Postman

EXPERIENCE

Software Engineer Intern, Mindex Technologies | Rochester, NY

May 2021 - Present

- Design, implement, debug, and maintain the widely used web-based New York Student Management System called SchoolTool using **Angular**, **.NET**, and **SQL** following agile methodology
- Work closely with the product owner on modernizing the application

Graduate Teaching Assistant, Rochester Institute of Technology | Rochester, NY

Jan 2021 – May 2021

- Teach Object-Oriented Programming (**JAVA**) to undergraduate students and mentor around 50 students

Software Engineer, FactSet Research Systems | Hyderabad, India

June 2016 - March 2019

- Proficient in full-stack development as well as DevOps
- Eliminated approximately 15 minutes spent every week by each developer by automating the data restoration between **SQL** servers and customizing pre and post-restoration process using Service Brokers between servers
- Improved the efficiency of the critical Push service up to 30% by redesigning it using SignalR in **.NET**
- Co-created a cloud migration strategy with the team within 6 months by creating 2 prototype alternatives for each of the 10 existing services utilizing AWS, Azure Cloud Services, and Docker
- Administered critical infrastructures including Web and SQL Servers, as well as more than 100 apps and services like Scheduler, Push, Build, and Deployment Systems
- Created and delegated workshops, and authored documentation for numerous applications and on “How to Use Service Brokers”
- Envisioned and spearheaded multiple services, automation, and test-driven applications using **C#**, **JavaScript**, **Angular.js**, **HTML**, **SQL**, and **PowerShell** and gained expertise on Agile Software delivery and Jira Workflow Management
- Mentored two new team members

PROJECTS

Connect Four and BattleShield Games

June 2021

- Designed and developed console-based versions of the classic BattleShield and ConnectFour games using **Java**

Digit Recognizer, Machine Learning

March 2021

- Achieved 98% accuracy in Digit classification on MNIST data from Kaggle with K-Nearest Neighbors, Support Vector Machine, and Multi-Layer Perceptron models using **Python**, Scikit-learn, Pandas, and Numpy

Language Classification between English and Dutch, Artificial Intelligence

Dec 2020

- Implemented language classification between English and Dutch with 90% accuracy using decision trees and boosted decision stumps in **Python**

New York Parking Violation Analysis, Big Data

Aug 2020

- Led a team of 3 in performing data management, cleansing, analysis, and mining on 50 Million Parking Violations issued in New York City over the last four years using **R**, **Java**, and **MySQL**
- Reduced data loading time by up to 80% by creating an automated mechanism that divided the data into smaller bits and loaded them one by one

COURSEWORK

Advanced Object-Oriented Programming (JAVA), Computer Networks, Big Data, Algorithms (JAVA), Parallel Computing, Artificial Intelligence (Python), Data Structures, Machine Learning, Computer Vision, Cryptography, Information Text Retrieval (JAVA)

ACHIEVEMENTS

- One of the two students who has been awarded Graduate Teaching Assistantship during Spring at RIT Jan 2021
- Received the “Star Employee of the Quarter” award twice at FactSet Dec 2017, 2018
- Among top 0.03% in All India Engineering Entrance Examination May 2012