Amrutha Varshini Mandalreddy

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EDUCATION

Rochester Institute of Technology   **Rochester, NY**
Master of Science Computer Science; GPA: 3.92/4.00   Jan 2020 - Dec 2021
Visvesvaraya National Institute of Technology   **Nagpur, India**
Bachelor of Science Electronics and Communication Engineering; GPA: 7.98/10   Aug 2012 - May 2016

EXPERIENCE

Graduate Teaching Assistant, Rochester Institute of Technology | Rochester, NY   **Jan 2021 – Present**
- Teach Object-Oriented Programming (**JAVA**) to undergraduate students
- Supervise quizzes, labs, exams and mentor for JAVA and Python Courses

Software Engineer, FactSet Research Systems | Hyderabad, India   **June 2016 - March 2019**
- Proficient in full-stack development as well as DevOps
- Proposed and automated the data restoration between **SQL** servers and customized pre and post-restoration process and also eliminated approximately 15 minutes spent every week by each developer in re-running the scripts and also gave the ability to own their databases
- Redesigned a containerized push application using **SignalR** library in **.NET** and improved the performance by 30% and its ability to withstand outages
- Worked on the cloud migration strategy for the department, researched and built multiple prototype alternatives for existing services using various **AWS, Azure Cloud Services, and Docker**
- Administered critical infrastructures like **Web & SQL Servers**, and over 100 applications & services like Scheduler, Push, Build & Deployment Systems implementing **CI/CD** pipelines, Notifications, and other automation tools
- Provided guidance and recommended solutions to all other teams in the department
- Created and delegated workshops, and authored documentation for numerous applications and processes
- 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 junior employees in the team

TECHNICAL KNOWLEDGE

Languages: JAVA, C#, Python, R, SQL Server, MySQL
Web Technologies: JavaScript, HTML, CSS, jQuery, Angular.js, Node.js, Web Services SOAP, REST
Cloud and Infrastructure: EC2, Kubernetes, Docker, CloudWatch, Azure Monitor, S3, Lambda
Tools: Git, Jira, IntelliJ, Visual Studio, RStudio, MySQL Workbench, Wireshark, PyCharm
Machine Learning Libraries: Numpy, Pandas, Keras, TensorFlow, Scipy, Matplotlib
Operating Systems: Linux, Windows, macOS

ACADEMIC PROJECTS

New York Parking Violation Analysis, Big Data   **Aug 2020**
- Led a team to perform 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**

Optimal Binary Search Tree, Parallel Computing
- Constructed Optimal Binary Search Tree by Dynamic Programming using **Java multi-threaded** programming

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, Machine Learning, Computer Vision, Cryptography

ACHIEVEMENTS:
- Received the *"Star Employee of the Quarter"* award twice during the time at FactSet
- Received 75% scholarship for Master of Science program at RIT