Medha Praneeth Modulla

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA   **December 2023**
Master of Information Systems Management   *GPA: 3.75/4.0*
Coursework: Database Management, Distributed Systems, DevOps, Linux and Open Source, Object Oriented Programming in JAVA, Data Structures, API Design

Birla Institute of Technology and Science, Pilani, India   **August 2020**
Bachelor of Engineering in Electronics and Instrumentation   *GPA: 3.72/4.0*
Coursework: C Programming, Computer Architecture, Operating Systems

SKILLS & TOOLS
Programming Languages: Java, C#, JavaScript, CSS, HTML, Python, C, C++, SQL
Libraries/Frameworks: .NET Framework, Windows Presentation Foundation, SeleniumBase
Tools: Docker, Jenkins, VirtualBox, Hadoop, Git, Team Foundation Server, Oracle PL/SQL, Bitbucket
Environments: Microsoft Visual Studio, Visual Studio Code, Android Studio, Eclipse, IntelliJ

EXPERIENCE
InterSystems Corporation   **Boston, MA**
Software Engineer, Quality Development   March 2024 – Present
- Developed end-end tests for InterSystems Data Fabric Studio using Seleniumbase framework in Python.

Honeywell   **Atlanta, GA**
Software Engineer Intern   May 2023 – August 2023
- Developed a web page using Angular 6 for Honeywell's Connected Life Safety Services, improving accessibility to building details during emergencies.
- Implemented backend functionalities in C# to process and store critical building information in the customer database.

Intel Corporation   **India**
Software Application Development Engineer   July 2020 – July 2022
- Developed browser-based applications customized for Intel's assembly/test factories using .NET Framework and WPF.
- Designed and implemented PL/SQL stored procedures to enforce business rules and validate data integrity within Intel's production line systems.
- Automated manual testcases for factory automation software, thereby reducing testing time.
- Led the deployment process for Intel's factory automation software solutions, coordinating with stakeholders to minimize downtime during software updates.
- Streamlined project dependencies with cross-functional teams, resulting in quicker project delivery.
- Provided L3 support for Intel's factory automation software solutions, addressing and resolving complex technical issues reported by customers.
- Demonstrated strong debugging, problem-solving skills and technical expertise to troubleshoot and resolve issues efficiently, minimizing impact on production operations.

Software Engineer Intern   July 2019 – Dec 2019
- Spearheaded the migration project for Recipe Management System from Microsoft 2008 to 2016 servers within the stipulated timelines with minimal disruption to operations.
- Developed User Interface functionalities using WPF and constructed platform APIs using C#.

PROJECTS
Bayer Radiology Capstone Project (Flutter, Dart, Figma)   August 2024 – December 2024
- Spearheaded the redesign of myRadiology360 mobile application UI, addressing user dissatisfaction and streamlining content.

- Implemented the design changes in myRadiology360 application, working with Flutter framework and Dart.

The Meal Recipe App (Java, Android, Docker, RESTful API, MongoDB)   January 2023 – April 2023
- Implemented an Android mobile application that provides recipes based on user input.
- Created a web service with RESTful API to handle requests from the app and response with data from TheMealDB API.
- Built a dashboard website to display how the service is being used with logging data stored in MongoDB.
- Deployed the service to GitHub Codespaces with Docker.

Crime Mapping (Hadoop, HDFS, Spark, MapReduce, JSON)   January 2023 – April 2023
- Wrote a MapReduce application in Linux to find the total number of each criminal incident type occurred within 200 meters of specific coordinates and output it as a KML file for viewing in GIS tool (Google Earth).
- Created combiners, counters, partitioning and distributed cache for best practice and performance improvement.
- Processed the JSON criminal data with Hadoop and uploaded it in Hadoop Distributed File System (HDFS).
- Implemented pre-defined operators in Spark including map, reduceByKey, groupByKey and combineByKey.

LEADERSHIP

Young Leaders for Active Citizenship   February 2019 – March 2019
- Authored a water policy document addressing water management challenges in Thoothukudi, Tamil Nadu, India and presented it to the Honorable **Member of Parliament** Mrs. K Kanimozhi, **Government of India**.