Venkata Sri Sai Surya Vinay Upadhyayula

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science
Master of Science in Computer Science | **Cumulative GPA:** 3.87/4.00   *Expected December 2024*
Relevant Coursework: Data Structures and Algorithms, Programming for the Web using MERN Stack, Data Science, Computer Architecture, Database Systems, Object Oriented Design, Operating Systems, Computer Networks and Security

Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad, India
Bachelor of Engineering in Electronics and Communications Engineering   *September 2020*

TECHNICAL SKILLS

Programming and Scripting Skills: Java, Typescript/Javascript, Python, C/C++, HTML, CSS
Database and Query Languages: MySQL, Elasticsearch, MongoDB, Spring JPA
Frameworks & Tools: AWS, Spring Boot, Spring MVC, Spring Security, REST API, Maven, Angular, React JS, Sckit Learn

PROFESSIONAL EXPERIENCE

Tata Consultancy Services (Hyderabad, India), *Systems Engineer, Full Stack Developer* | **Client: Proximus**
Workforce Management Integration Layer   *June 2022 – December 2022*
- Engineered a full-stack Workforce Management application utilizing Apache Camel, XSLT, Angular, and Spring Boot
- Engaged actively in discussions with analysts and stakeholders, providing demonstrations from feature description through post-implementation testing phases that led to a 55% decrease in average handling time of a request

National Directory Search   *November 2021 – June 2022*
- Developed a Directory search portal project for a leading Belgium Client using Spring Batch Processing, Spring Boot, Angular, REST, Elasticsearch DB, Spring Cloud, Jenkins and Openshift container platform
- Played a key role in the development from the project initiation phase to the handover phase
- Orchestrated a strategic project that contributed to a 4.2 million euros increase in client profitability

Central Digital Communication Platform eXtension - Test Automation Integration   *July 2021 – November 2021*
- Developed a UI functionality using Angular 10 and Node JS to integrate Web Service Automation Testing using Selenium and REST Framework in a Agile team of 15 members
- Devised and executed the functionality that significantly reduced manual testing overhead, resulting in substantial cost savings of over 40% for the client

PROJECT EXPERIENCE

Black Friday Sales Prediction Analysis,Independent Study, *Independent Project*   *September – December 2023*
- Performed exploratory data analysis and compared various machine learning regression algorithms to predict the amount of sales in a retail store based on historical sales transactions achieving an accuracy of 64.44%

Spreadsheet Development, *Independent Project*   *June – August 2023*
- Implemented a complete spreadsheet functionality using Typescript/Javascript, MongoDB, web services and React JS

Retail Business Management System, *Co-Developer, Group Project*   *March – April 2023*
- Completed a Java JDBC and PL/SQL academic project that implements Retail Business Management System application that provides an efficient solution to manage all the retail business operations using a menu driven interface

LEADERSHIP EXPERIENCE

Binghamton University, *Teaching Assistant* | Binghamton, NY   *August 2023 – Present*
- Gained expertise by contributing as a Teaching Assistant for Data Structures and Algorithms using C++
- Assist in coursework, grading, conducting lab sessions and office hours every week for a class of over 60 students

Binghamton University, *Bus Captain* | Binghamton, NY   *August 2023*
- Guided incoming graduate and undergraduate students to safely reach the university from New York Airport
- Coordinated with the students, parents and the Office of Graduate Recruitment and Admissions team

GRIET, *Class Representative* | Hyderabad, India   *August 2016 – September 2020*
- Acted as a point of contact between students and the department, addressed student issues and difficulties in coursework, curricular and extracurricular activities
- Helped the department in the design of electives in the curriculum so that students are industry ready