RESHMA ROOHI KHAYUM

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EDUCATION

New York Institute of Technology, Old Westbury, New York   *Expected:May 2024*
Master of Science in Computer Science, GPA:4.0

Courses: Data Structures and Algorithm Concepts, Theory of Computation, Operating System Security, Programming Language, Artificial Intelligence, Computer Architecture, Data Mining, Principles of Information Security, Database Systems.

Jawaharlal Nehru National College of Engineering, Shivamogga, India   *Jun 2019*
Bachelor of Engineering, Computer Science

SKILLS

Programming Languages& Databases: Java, PL/SQL, Python, JavaScript, MySQL, PostgreSQL, Oracle SQL, MongoDB
Web Development: HTML5, CSS3, Django, Servlet and JSP, Rest API, MVC, React, Bootstrap
Frameworks & Libraries: Spring Boot, Junit, OpenGL
Tools: Jira, Git, ServiceNow, Linux, Power BI, IBM Navigator, Docker, Tableau, Eclipse, Visual Studio Code
Cloud & Platforms: Amazon Web Services - AWS (EC2, ELB, EKS), Azure Fundamentals, Android Apps (MIT App)

PROFESSIONAL EXPERIENCE

Teaching Assistant & Graduate Assistant   **New York Institute of Technology**   *Sep 2022 – May 2024*
Old Westbury, New York

- Facilitated learning as a Teaching Assistant, specializing in Discrete Mathematics, Theoretical Concepts of Computation, and Software Engineering by conducted comprehensive tutorials, managed attendance, and administered assessments to ensure student improve their performance by 20%.
- Implemented digital record-keeping systems, transitioning from paper-based to electronic formats, resulting in a 50,000 sheet reduction in annual paper usage and environmental impact mitigation using WebNow, PeopleSoft, and ImageNow.

Application Development Analyst   **Accenture Solutions Pvt. Ltd**   *Dec 2019 - Aug 2022*
Bangalore, India

- Strengthened code security measures, reducing sensitive data exposure risk by 19%, demonstrating adept problem-solving and security awareness.
- Automated operational processes with Python scripts, boosting efficiency by 15% and minimizing manual workload, showcasing expertise in automation and data management along with QA testing.
- Enhanced application functionality through HomePro (Uniface, JavaScript, HTML), driving a 13% increase in Gross Merchandise Volume (GMV), emphasizing front-end development skills and business impact.
- Optimized code and database queries (Uniface, SQL Server) to achieve an 8% performance improvement, illustrating proficiency in code optimization and database management and led a team in knowledge transfer initiatives, fostering a collaborative environment and positive team dynamics.
- Played an active role in defect reduction efforts within the Oracle Content Server team, achieving a 12% decrease in defect count through meticulous monitoring and analysis.
- Spearheaded over 35 issue resolution using Agile methodologies and Jira, showcasing project management and issue tracking capabilities.

PROJECTS

Twitter Data Analysis and study: Leveraging Python for Advanced Data Analysis
(Machine Learning, NLP, Scikit-Learn, SciPy, Python3)   *Nov 2023*

- Engineered a robust Twitter Data Analysis Project to explore a massive dataset of 10,000 tweets, demonstrating expertise in data wrangling and visualization.
- Employed diverse techniques with 95% accuracy in word frequency analysis, 90% in source localization, and 85% in identifying temporal patterns, unlocking insights and forecasting social media trends accurately, showcasing Python library proficiency.

Stock Market Analysis: Prediction
(Python, pandas, numpy, matplotlib, seaborn)   *May 2023*

- Led a machine learning-driven "Stock Market Prediction" project to anticipate market movements using 44 stocks with 10 features for each.
- Collected, preprocessed, and trained models using Naive Bayes, SVM, Decision Tree, and Neural Networks algorithms, achieving accuracies of 45%, 60%, 68%, and 60%, respectively. Transformed complex findings into clear visuals to communicate algorithm performance and predictive capabilities effectively.

Information Security System using Cryptography and Steganography
(Java Swing)   *Jun 2019*

- Implemented a hybrid approach for data security, combining encryption algorithms with steganography techniques, resulting in increased accuracy by 25%.
- Developed a user-friendly Java Swing interface for intuitive interaction with the secure system, encrypting secret text/image and embedding them into stego-image. The system also decrypts stego-images at the receiving end, allowing recipients to retrieve the original data.

Full-stack web application development: "Car Go."
(MySQL, HTML, CSS, JavaScript and PHP)   *Jan 2019*

- Designed "Car Go", a car rental website using MySQL, HTML, CSS, JavaScript, and PHP, enabling customers to book rentals and view predicted bills, resulting in a reduction in paperwork by 80%.
- Devised separate logins for customers and owners, with features for owners to manage car availability, add new cars, and view bills and driver details.