

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 - Present

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 success.
- 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.
- 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 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 delve into a massive dataset of 10,000 tweets, showcasing expertise in data wrangling and visualization.
- Employed diverse techniques like word frequency analysis, source localization, and temporal patterns to unlock hidden insights and predict potential social media trends by demonstrating proficiency in popular Python libraries.

Stock Market Analysis: Prediction

(Python, pandas, numpy, matplotlib, seaborn)

May 2023

- Led a "Stock Market Prediction" project using machine learning techniques to anticipate market movements.
- Collected and preprocessed data, trained models with various algorithms (Naive Bayes, SVM, Decision Tree, Neural Networks), and evaluated their accuracy and transformed complex findings into compelling visuals, ensuring clear communication of algorithm performance and predictive capabilities.

Information Security System using Cryptography and Steganography

(Java Swing)

Jun 2019

- Pioneered a hybrid approach for data security, with encryption, and steganography, for unparalleled data protection on images, undetectable to the eye.
- Developed a user-friendly Java Swing interface for intuitive interaction with the secure system for decrypting the stego-image at the receiving end enabling the recipient to retrieve the original data.

Full-stack web application development: "Car Go."

(MySQL, HTML, CSS, JavaScript and PHP)

Jan 2019

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