

SHARADHA SHIVAKUMAR

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EDUCATION

George Mason University

Master of Science in Computer Science

Fairfax, VA

Expected Graduation - May 2024

Relevant Courses: Theory and Application of Data Mining, Decision Making and Reinforcement Learning, Software Testing, Software Engineering for WWW, Database Management Systems, Analysis of Algorithms, Software Design and Architecture, Decision Guidance Systems

Rajalakshmi Engineering College, Anna University

Bachelor of Engineering in Computer Science and Engineering

Chennai, India

CGPA: 8.85/10 **First Class with Distinction Pass- May 2021**

SKILLS

- **Programming Languages and Databases:** Python, C, Oracle SQL, Java, C#, T-SQL, NoSQL
- **Web Development:** HTML, CSS, JavaScript, Bootstrap, Ajax, React JS, Angular, TypeScript, .NET, Flask
- **Testing:** JUnit, Cucumber, Input Space Coverage, Graph Space Coverage, Logic Coverage
- **Frameworks/Tools:** Eclipse, VS Code, Oracle, NetBeans, Apache Tomcat, Maven Android Studio, Spring
- **Version Control:** Git
- **Web Services and Data Formats:** SOAP, REST, XML, JSON
- **Data Analytics:** Matplotlib, NumPy, Pandas, Seaborn, Scikitlearn, JupyterNotebook, NLTK
- **Cloud & Containerization:** AWS, Microsoft Azure, Docker
- **Microsoft Dynamics 365:** MB900, MB910

EXPERIENCE

Programmer Analyst Trainee, Cognizant Technology Solution

Aug 2021-Apr 2022- Chennai, India

- **Role-**Microsoft CRM Developer.
- Engineered custom workflows in collaboration with business analysts and configured Dynamics CRM using JavaScript and CRM SDK, resulting in a 40% reduction in manual data entry and improving overall sales team efficiency.
- Orchestrated seamless management of project documentation and Jira tickets, optimizing development processes, and resolving issues at a 30% faster rate, ensuring timely project delivery.
- Leveraged technical skills including Microsoft Dynamics MB-910, MB-900, JavaScript, C#, object-oriented, and expertise in web technologies such as HTML, CSS, and ASP.NET to deliver robust solutions.
- Accomplished a 25% project productivity increase through effective communication and collaboration with the development team.

Software Engineering Intern, Mediawings Bahrain WLL

Sep 2020-Dec 2020- Bahrain

- Collaborated with marketing at a startup company to align technical solutions with data-driven insights, optimizing web content and enhancing the user experience through responsive web development (HTML, CSS, JavaScript, Angular, Node.js).
- Conducted code reviews and actively participated in the software development lifecycle.
- Improved website SEO based on data insights, ensuring cross-device compatibility and code optimization, resulting in a verified 85% increase in organic search traffic, contributing to robust and secure web solutions.

PROJECTS (15+)

Job Recommendation System

May 2024 - George Mason University

- Led integration and enhancement of job matching platform using Pyomo and Sentence Transformer Models, boosting match accuracy from 0.28 to 0.98.
- Presented strategic project insights in PPT, demonstrating leadership and advanced data processing proficiency.

Enhancing Fire Safety

Dec 2023- George Mason University

- Led an innovative fire safety initiative, achieving a remarkable 97% accuracy in adaptable pathfinding using Q-Learning and A* search Python, showcasing precision and data-driven problem-solving.

Dynamic University Website with Enhanced User Experience

Nov 2023- George Mason University

- Revitalized a university website, optimizing user experience by implementing dynamic forms and enhancing interactivity using Angular and React. Achieved a 45% reduction in page load time through refined design techniques. Engineered a robust back-end with RESTful APIs, JDBC, and Spring Boot, adhering to best practices in security and data protection.

Flight Operations Management System

April 2023- George Mason University

- Developed a Java-based Oracle SQL testing Android application for multi-airport flight operations, managing data for over 100 passengers, thus showcasing proficiency in cross-platform development and database management.

Architecting an Educational IT Enterprise

May 2023- George Mason University

- Led the design and implementation of an IT enterprise software system for the education sector, resulting in a 20% increase in system scalability and efficiency.

Sentiment Analysis

Sep 2022- George Mason University

- Conducted extensive experimentation with various algorithms and successfully implemented sentiment analysis on movie reviews, ultimately achieving a high classification accuracy of 94% using the KNN algorithm.