SHARADHA SHIVAKUMAR

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PROFESSIONAL SUMMARY

Master's in Computer Science graduate with expertise in developing scalable software solutions and enhancing user experiences. Proven ability to lead projects and collaborate with cross-functional teams to drive efficiency and innovation.

EDUCATION

George Mason University   **Fairfax, VA**
Master of Science in Computer Science   **May 2024**
<u>**Relevant Courses**</u>: 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   **Chennai, India**
Bachelor of Engineering in Computer Science and Engineering   **May 2021**
<u>**Relevant Courses**</u>: Data Structures and Algorithms, Operating Systems, Object-Oriented Programming

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, Node.js, jQuery
- **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, Docker

EXPERIENCE

Programmer Analyst Trainee, Cognizant Technology Solution   **Aug 2021-Apr 2022- Chennai, India**
- Role- Microsoft CRM Developer
- Developed custom workflows, reducing manual data entry by 40% and improving sales team efficiency
- Optimized project documentation and JIRA ticket management, resolving issues 30% faster
- Engineered custom JavaScript and C# plugins for a lookup field in the sales team lead creation form, resulting to a 20% increase in user data entry speed and a 25% improvement in overall project productivity
- Leveraged technical skills including Microsoft Dynamics CRM, object-oriented programming, Oracle SQL, HTML, CSS, and ASP.NET to deliver robust solutions, and utilized Postman API for testing and development purposes.
- Enhanced team collaboration and project outcomes through strong verbal and written communication skills, utilizing platforms like Slack and Microsoft Teams to facilitate effective team communication and coordination.

Software Engineering Intern, Mediawings Bahrain WLL   **May 2020-Dec 2020- Bahrain**

- Engaged with marketing team to align on technical solutions with data-driven insights, optimizing web content and enhancing the user experience through responsive web development
- Performed over 40 code reviews for the web development team using git, ensuring best practices and code quality.
- Increased organic search traffic by 85%, resulting in a significant boost to qualified leads.

PROJECTS

Job Recommendation System   **May 2024 - George Mason University**
- Led integration and enhancement of job matching platform using DistilBERT, Pyomo, and 3 other machine learning models, significantly boosting match accuracy from 0.28 to 0.98.
- Utilized GIS to find closer job locations, improving user experience with geographically optimized recommendations and demonstrating technical skills in data management and GIS.

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**
- Deployed the revitalized a university website on AWS, using Angular, HTML, CSS, JavaScript, and Spring Boot, resulting in a 45% reduction in page load time and a more engaging user experience

Flight Operations Management System   **Apr 2023- George Mason University**
- Developed a Java-based Oracle SQL testing Android Mobile 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, emphasizing software architecture utilizing UML diagrams, which increased system scalability and efficiency by 20%

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