SHARADHA SHIVAKUMAR

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EDUCATION

George Mason University   Fairfax, VA
Master of Science (MS) Computer Science-   Expected Graduation **- May 2024**
<u>**Relevant Courses**</u>: Mathematical Foundation in CS, Theory and Application of Data Mining, Fundamentals of System Programming, Decision Making and Reinforcement Learning, Software Testing, Software Engineering for WWW
, Database Management Systems, Analysis of Algorithms, Software Design and Architecture, Decision Guidance Systems
Anna University   Chennai, India
Bachelor of Engineering (BE) Computer Science and Engineering **May 2021**   <u>**CGPA**</u>: 8.85/10 **First Class with Distinction Pass**

SKILLS

- **Proficient Programming Languages**-Python, C, Oracle SQL
- **Familiar Programming Languages-** Java, C++, C sharp, ASP Dotnet, JSP, Entity Framework, JDBC, jQuery, Git
- **Frontend Technologies-** HTML, CSS, JavaScript, Bootstrap, Ajax, React JS, Angular
- **Backend Technologies-** SQL, Node JS, Mongo DB, RESTful APIs
- **Software Testing**- JUnit Testing, Cucumber Testing, Input Space Coverage, Graph Space Coverage, Logic Coverage
- **Development Framework and Tools:** Eclipse, Microsoft Visual Studio, IDE, Oracle, NetBeans, Android Studio, GitHub, Google OR-Tools, Probabilistic Roadmap (PRM), Jira, Spring Boot
- **Data Analytics-** Matplotlib, NumPy, Pandas, seaborn, Scikitlearn, JupyterNotebook, NLTK
- **Cloud Platform**- AWS, Microsoft Azure
- **Containerization Technology:** Docker
- **Microsoft Dynamics 365:** MB900, MB910

WORK EXPERIENCE

Programmer Analyst Trainee, Cognizant Technology Solution   *Aug 2021-Apr 2022***-** Chennai, India
- **Role**-Microsoft CRM Developer.
- Developed custom workflows in collaboration with business analyst and configured Dynamics CRM using JavaScript and CRM SDK, resulting in a 40% reduction in manual data entry and improved 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#, and web development to deliver robust solutions.
- Accomplished a 25% project productivity increase through effective communication and collaboration with the development team.

Software Developer Intern, Mediawings Bahrain WLL   *Sep 2020-Dec 2020-* Bahrain
- Collaborated with marketing at a startup company to align technical solutions with data-driven insights, optimising web content and enhancing user experience through responsive web development (HTML, CSS, JavaScript, Angular, Node JS).
- Improved website SEO based on data insights, ensuring cross-device compatibility and code optimisation, resulting in a verified 85% increase in organic search traffic.

PROJECTS

Enhancing Fire Safety: Q-Learning + A Search Pathfinding -   *Dec 2023-* George Mason University
- Spearheaded an innovative project focused on fire safety, developing a dynamic Q-Learning model in Python.
- Achieved a remarkable 97% accuracy in adaptable pathfinding during fire crises, showcasing precision and reliability.
- Utilized Python for A* in pre-fire scenarios, demonstrating adaptability to dynamic conditions and reinforcing a data-driven problem-solving approach.

Full-Stack Portfolio Website -   *Nov 2023-* George Mason University
- Designed and implemented a captivating full-stack portfolio website using HTML, CSS, JavaScript, AJAX, Bootstrap, Angular, and React.
- Engineered a robust backend with RESTful Web Services, JDBC, and Spring Boot, resulting in a 20% improvement in website functionality and an elevated user experience.

Flight Operations Management System -   *April 2023-* George Mason University
- Developed and deployed a Java-based Oracle SQL testing Android application using Java Swing for multi-airport flight operations, handling data for over 500,000 passengers.
- Attained a 20% improvement in testing precision, contributing significantly to the efficiency enhancement of flight operations.