

# SHARADHA SHIVAKUMAR

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## EDUCATION

### George Mason University

Master of Science in Computer Science

Fairfax, VA

May 2024

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

### Rajalakshmi Engineering College, Anna University

Chennai, India

Bachelor of Engineering in Computer Science and Engineering

May 2021

**Relevant Courses:** Data Structures and Algorithms, Operating Systems, Object-Oriented Programming, Artificial Intelligence

## EXPERIENCE

### One Community

Software Engineer

Oct 2024 - Present

Remote, California

- Developed and integrated new features for the *Highest Good Network App* using the MERN stack, increasing user engagement by 25% and resolving over 10 user interface issues across various screens to enhance usability.
- Worked with a global team of 100+ developers, utilizing Git for version control, reviewed and tested 30+ pull requests, ensuring smooth team collaboration and reducing deployment errors.

### Cognizant Technology Solution

Programmer Analyst Trainee

Aug 2021 - Apr 2022

Chennai, India

- Developed custom workflows as Microsoft CRM Developer, reducing manual data entry by 40% and improving sales team efficiency.
- Optimized project documentation and JIRA ticket management, resolving issues 1.3 times 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, ASP.NET C# and MVC to deliver robust solutions, and utilized Postman API for testing and development purposes.
- Enhanced team collaboration through strong verbal and written communication skills, utilizing platforms like Slack and Microsoft Teams to facilitate effective team communication and coordination.

### Mediawings Bahrain WLL

Software Engineer

Jul 2020 - Dec 2020

Manama, Bahrain

- Improved website visibility and user engagement by implementing SEO strategies, leading to an 85% increase in organic search traffic.
- Conducted over 20 code reviews, ensuring adherence to best practices and code quality throughout the SDLC.
- Leveraged DevOps by implementing CI/CD pipelines, reducing deployment time by 30% and enhancing web solution delivery.

## PROJECTS

### Job Recommendation System

May 2024

- Enhanced job matching platform with Flask, Pyomo, and 4 Machine Learning models including BERT and Sentence Transformer (LLMs), increasing accuracy from 28% to 98% and improving user experience with GIS-based recommendations.

### Enhancing Fire Safety

Dec 2023

- Directed a team of 3 in developing an AI-driven fire safety initiative, utilizing a hybrid of Q-Learning and A\* search algorithms to achieve 97% accuracy in identifying the fastest escape routes during emergencies.

### Dynamic University Website

Nov 2023

- Containerized and deployed a revitalized university website on AWS and using Docker, Angular, HTML, CSS, JavaScript, and Spring Boot, reducing page load time by 45% and enhancing user experience.

### Flight Operations Management System

May 2023

- 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

Apr 2023

- Led the design and implementation of an IT enterprise software system for the education sector, emphasizing service-oriented architecture (SOA) and utilizing UML diagrams, which increased system scalability and efficiency by 20%.

### Sentiment Analysis

Sep 2022

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

## SKILLS

- Programming Languages and Databases:** Python, C, Oracle SQL, Java, C#, T-SQL, NoSQL, MongoDB
- 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
- Web Services and Data Formats:** SOAP, REST, XML, JSON
- Machine Learning Models:** KNN, Random Forest, Naive Bayes, BERT, Sentence Transformer, Word2Vec
- Data Analytics:** Matplotlib, NumPy, Pandas, Seaborn, Scikitlearn, Jupyter Notebook, NLTK, scikit-learn, matlab
- Cloud & Containerization:** AWS, Docker, Kubernetes
- CRM Tools:** Microsoft Dynamics CRM, Salesforce