MADHU DEVARAJ
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SUMMARY

A quality focussed software engineer with 4+ yrs of experience in software design, development and automation testing using cutting-edge technologies

EDUCATION

Master of Science in Computer Science	The George Washington University, United States	GPA - **3.74/4.0**	2017 - 2019
Bachelor of Engineering in Computer Science	Visvesvaraya Technological University, India	GPA - **3.77/4.0**	2010 - 2014

TECHNICAL SKILLS

Languages / Technologies:	Java, J2EE, REST Web Services, Spring Boot, Spring Data, JavaScript, Angular 4, Bootstrap, HTML, CSS
Databases / Servers:	MySQL, Oracle
QA Automation Technologies:	REST Assured, TestNG, Mockito, JUnit, Selenium, UFT, Maven, Gradle
Tools:	Eclipse, MySQL Workbench, Github, Putty, Jenkins, Postman, SonarQube, JMeter, Swagger, WhiteSource
Methodologies:	Agile Scrum, Object-Oriented Design, Acceptance Test Driven Development (ATDD)

PROFESSIONAL EXPERIENCE

Software Engineer, Micro Focus, McLean, Virginia   07/2019 - Present

Project: ArcSight - Enterprise Security Manager (Technologies: **Java/J2EE, Spring Boot, Spring Data, MySQL, REST Assured, TestNG, JUnit, Maven, Github, SonarQube, JMeter, Swagger, Postman, WhiteSource**)

- Designed and developed REST APIs to serve data for next-gen UI application using technologies like Spring Boot, Spring Data and MySQL.
- Integrated modern tech stack like Rest Assured with J2EE framework for automation of REST APIs which was not only beneficial to our team but also leveraged by other teams. Used this framework to implement 100% automation of APIs.
- Created unit tests using JUnit and Mockito and used JMeter for performance testing.
- Designed APIs using Swagger and performed manual and integration testing using Postman tool.
- 80% of my time was spent in coding, developing enhancements, performing testing and debugging critical issues.
- Used SonarQube with JaCoCo plugin to identify code smells and code coverage. Used WhiteSource for license and security scans.
- Used Jenkins and Maven for continuous integration and development (CI/CD) and GitHub for version control.
- Presented technical demos across teams, mentored interns, performed code reviews and created documentation for knowledge sharing.

Software Engineer Intern, Micro Focus, McLean, Virginia   05/2018 – 05/2019

Project: ArcSight - Enterprise Security Manager (Technologies: **Java, Spring Boot, Spring Data, MySQL, Selenium, TestNG, UFT, QF-Test, JUnit, Maven**)

- Built REST APIs to implement various functionalities using Spring Boot, Spring Data and MySQL.
- Developed and executed automated test suites using TestNG annotations with Selenium web driver and JUnit framework and software testing tools like QF-Test and Unified Functional Testing (UFT).
- Used Jenkins and Maven for continuous integration and development (CI/CD).

Graduate Assistant, George Washington University   01/2018 - 05/2018

- Worked under Associate Dean of Computer Science as graduate assistant for: Java and Relational Database Systems.

Software Engineer, Cognizant Technology Solutions, India   08/2014 - 10/2016

Project: Akzonobel B2B application (Technologies: **Java, webMethods, SQL, JavaScript, Jenkins**)

- Developed enhancements for B2B application using webMethods (Java based Integrated Development Environment) by gathering requirements from the client and fixed customer reported defects.
- Key responsibilities included handling operational changes and functional enhancement requests, coding modules, identifying technical issues and performing root cause analysis.
- Picked up knowledge of the project technology quickly and implemented changes to stabilize the project. For e.g., increased efficiency by 75% by improving the retry mechanism in production which led to reduction of failed transactions.
- Developed SQL queries to generate precise reports of failed transactions which helped in processing transactions efficiently.
- Gained insights into the Software Development Life Cycle (SDLC) and software engineering practices such as Agile and Waterfall.
- Mentored junior team members, conducted technical sessions for knowledge sharing, participated in activities like release acceptance and application continuity support.

PROJECTS

Hand Gesture Recognition Algorithm [OpenCV, JavaScript, Node.js]

- Designed a hand gesture recognition algorithm which converts the gesture into binary mask, removes noise and computes the convex hull of the hand contour to detect simple hand gestures.

iProtect - Image Recognition and Identification with Real-Time Alerts [PubNub, Python, JavaScript]

- Developed a real-time application to help users to keep tabs on their pets. User is alerted with an SMS to help protect their pets when a threat is detected. Made use of Google Cloud Vision API and PubNub.

IntelliBot - A Smart Chatbot [Javascript, Java, Bootstrap]

- Built a Chatbot which responds to user queries. User can interact with the bot via text or voice. The Chatbot has the ability to reply through both text and audio.

Budget App [JavaScript, HTML 5, CSS 3]

- Developed web application using "Module Pattern" design pattern. To obtain encapsulation/data-privacy used IIFEs and closure. Used the "separation of concerns" (SoC) design principle and used concepts of event delegation and event bubbling.

Dice Game [JavaScript, JQuery, HTML 5, CSS 3]

- Implemented a multi-player game "Pig Dice", a responsive web application using JavaScript. Used JQuery for dice animation, extensively used anonymous functions, performed DOM manipulation and used event listeners.

ACHIEVEMENTS

- Founder of 'Apti-LITe Sigma', a non-profit start-up where I taught Computer Science and Mathematics to about 300 undergrads.
- Was awarded 'Performer of the year' in Cognizant for 2015-16. Also, designated as Chief of University during bachelors.