




AVRAAJ MATHARU

LEAD TECHNICAL ARCHITECT

CONTACT


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EXPERTISE

- Skilled in **HTML, CSS, JavaScript, ReactJS, jQuery, Web APIs, Third-Party APIs, Server APIs, and Bootstrap** for front end development, I specialise in crafting captivating and responsive user interfaces to industry standards. As an automation expert proficient in **Java, JavaScript, and Python**, I excel in developing efficient frameworks and delivering end-to-end solutions seamlessly.
- Renowned as a Technical Virtuoso, I navigate the **SDLC and STLC** with precision, translating requirements into robust automation frameworks and scripts. A testing aficionado, I leverage tools like **Selenium, Appium, Robot, Tosca, POSTMAN, ReadyAPI MOCHA, CHAI, WebdriverIO, ELK Stack, GitHub Actions, AWS CodeBuild/CodePipeline, AWS S3 Storage & EC2 Management, JIRA, Docker** and more across **Agile and Waterfall SDLC methodologies**.
- Expertise extends to data management, extracting insights from **MySQL**, facilitating data-driven decision-making. I've implemented Machine Learning models using **Python libraries like Scikit-learn and TensorFlow**, recognized as an **AI/ML Alchemist** exploring **neural networks, reinforcement learning, and clustering algorithms**. I provide guidance from fundamentals to advanced topics, excelling in evaluating predictive performance and navigating the landscape of deep learning—a unique blend of technical expertise and innovation for success in dynamic environments.


REFERENCES

Darren Coupland (EVP, Head of Sogeti UK)

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Barry Weston (Delivery Director, Sogeti UK)

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MEMBERSHIP & REPRESENTATIONS

- **Lead Technologist at Sogeti UK**, spearheading the implementation of cutting-edge tools and innovations across sectors like Public, Telecommunications, Procurement, Logistics, and Health.
- Serve as the **UK Representative for Global Architects**, facilitating seamless communication and collaboration, aligning strategic initiatives, and fostering a cohesive approach to technology architecture globally.
- Act as the **UK Representative for AI/ML**, leading initiatives, identifying opportunities for integration, and ensuring Sogeti excels in leveraging advanced technologies for client solutions.
- Contribute as a **Member of SogetiLabs UK**, collaborating with experts to explore emerging technologies, conduct experiments, and shape forward-thinking strategies for Sogeti's technological advancements in the UK.

WORK EXPERIENCE

Lead Technical Architect

Capgemini UK Plc (Sogeti)

2019-Current

UKHSA - Health Sector

2020-Current

- The project was the finalist for **European Software Testing Awards 2022**.
- Led a 10-member team in developing a robust automation framework for the COVID-19 Test & Trace app (Android & iOS) and web portals using Appium, RestAssured, and Selenium.
- Hands-on development using Java, Appium, Selenium, Serenity BDD, and API automation with CI/CD pipeline on AWS CodeBuild/CodePipeline and GitHub Actions.
- Generated detailed test and weekly automation reports, incorporating Machine Learning for analytical insights via an ELK dashboard.
- Orchestrated 'one-click automation' with Docker integration in AWS CodeBuild CI pipeline for end-to-end integration testing.
- Developed Automation Test Strategies and plans, conducted feasibility analysis, and led tool selection.
- Introduced AI for self-healing automated test cases, reducing maintenance time.
- Provided technical requirements, assisted in security and infrastructure analysis, and evaluated vendor tools.
- Successfully implemented and leveraged AI automation, contributing to business revenue.
- Implemented DevSecOps tooling standards, end-to-end pipeline automation, and 'one-click' change control and deployment.
- Created technical documents and repositories for efficient knowledge transfer.

Automation Architect

Capgemini UK Plc (Sogeti)

Spirit Energy & Welsh Water - Utility Sector

2020

- Developed Test Automation framework using Tricentis TOSCA and designing automation tests for SAP SuccessFactors applications.
- Setting up the automation environment & infrastructure with VMs, VDIs, Tricentis TOSCA automation tool, Common Repository for Multi – user testing capability, Workflow Management tool, TOSCA Server for overnight test runs.
- Evaluating automation tools and technologies to be used for automation.
- Driving good coding / scripting practices & standards for developing Test Automation scripts.
- Generating daily & weekly test automation reports for technical and management audience.
- Stakeholder Management and establishing myself as a key technical point of contact.

SAP Software Development Engineer in Test

Capgemini UK Plc (Sogeti)

British Aerospace and Defence Systems

2019-2020

- Developed and implemented Automation Test Strategy and Test plan for the project.
- Evaluated Automation test tools and implementation of Test Automation from scratch.
- Developed and presented PoC to integrate client's PLM, Workflow Management tool with Tricentis TOSCA.
- Conducted in-depth analysis of environments, infrastructure, Database, functionality of UI to create a plan for implementing Test Automation
- Conducted presentations and demonstrations with the clients, showcasing the benefits of introducing Test Automation in a manual environment to gain customer confidence.
- Implemented Tricentis TOSCA for developing automation test cases and using TOSCA server as CI implementation for scheduling automated test runs.
- Developed Test automation framework and automation scripts for SAP migration program from SAP r/3 to SAP S/4 HANA.
- Created a CI pipeline using TOSCA Server / Jenkins to support DevOps architecture.

Lead Software Development Engineer in Test

Capgemini UK Plc (Contractor)

Ministry of Defence UK

2018-2019

- Maintained and executed automation scripts on Canopy Test framework using F# programming language.
- Framework 1 - Developed and maintained a robust automation framework from scratch using Java, Selenium Web driver, BDD approach using Cucumber, Gherkin and Page Object Model across the Core Test Applications and worked on multiple projects in parallel.
- Framework 2 - Developed and maintained a robust Automation framework for the MoD using JavaScript, MOCHA test framework, Grunt as a Test Runner, WebDriverIO and CHAI assertion library.
- Introduced Agile methodology (SCRUM and KANBAN) across the project to increase the efficiency of Testing and delivery.
- Played a key role in Test environment Management which included deploying the applications on Test environments hosted on Linux OS using Shell scripting commands. Also included taking snapshots, deleting snapshots, and reverting the environments to keep them up to date.
- Configuring and executing tests overnight using Jenkins and Team City to deliver the need for Continuous Integration and Continuous Deployment.
- Maintained and executed automation scripts on Micro Focus ALM and Micro Focus UFT.
- Involved in the creation of Test strategies, Test planning, developed Automation framework, executing automation scripts, and creating effective technical and non – technical reports for the business and management.
- Scheduling and automating tests using Micro Focus ALM and Micro Focus UFT 14.0
- Operational responsibility for Statement of Work activities and Team Management resulting in 100% revenue realisation.

Software Development Engineer in Test

Capgemini UK Plc

2016-2018

Royal Mail UK Plc

2017-2018

- Involved in enhancing the already existing automation framework developed using Java and Selenium to increase the productivity and test efficiency.
- Implemented REST API Automated Testing using SoapUI.
- Used Groovy scripting language to integrate tests, run test suites and feed the test data in the tests.
- Created mocks/stubs (service virtualisation) for the web service responses using Java and Groovy scripting languages.
- Conducted Sprint Planning meetings, Retrospective meetings while introducing Agile methodologies across the team.
- Involved in Automation Tool selection process for Web based and API Automation testing.
- Developed an integration mechanism between JMeter and Jenkins tools so that the API Automation tests can run with a one-click approach keeping in alignment with the DevOps architecture.

Software Development Engineer in Test

Capgemini UK Plc

Talk Talk

2016-2017

- Introduced Test Automation as a part of the Agile process for the project.
 - Designed and Implemented a Selenium Automation framework from scratch using Selenium and Java, TestNG as a Test Runner, and Page Object Model for the program to reduce test cycle time, increase the test coverage and improve the quality of each release.
 - Conducted workshop on Selenium, Java and TestNG for the rest of the QA community so that the automation solution created can be used across other projects.
 - Created utilities for Test Data creation through Automation using Java.
 - Developed and maintained a web-based automation portal using Java to have a two-way update process between Bugzilla and JIRA.
 - Involved in tool selection process for Java based thick client desktop application.
 - Worked as an Automation Test Lead for two parallel projects simultaneously with Hands on execution tasks also involving part time Project Management responsibility.
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Software Development Engineer in Test

DHL Ltd. (Formerly UK Mail)

2014-2016

- Created automated and manual test scripts for online, mobile and web-services testing at all levels of STLC and SDLC
- Extract, Design and Development of Test Cases for both Client server and Web Applications from requirements specifications
- Performed automation of Web-Services testing in SOA environment using SoapUI.
- Performing Load testing and Stress testing using JMeter, SoapUI
- Worked in Test Driven Development environment performing automation Testing.
- Performing Alpha and Beta testing for UAT, functional testing, GUI testing, regression testing, system testing
- Generating mock responses (service virtualisation) using Service V, Service VPro, SoapUI.
- Writing Groovy scripts to input test data in the Requests, to trigger test suites, etc.
- Conducting cross browser testing (Browser compatibility)
- Executing and maintaining test repository in Team Foundation Server (TFS), Microsoft Test Management (MTM).
- Effective use of defect raising and tracking tools like Jira, SharePoint, TFS, MTM Generating periodic Test reports and providing timely updates to the Test Manager, Project Manager and Business Manager.
- Worked with RDBMS and SQL scripts to query the Database.

Front End Web Developer + QA Analyst

Best Western Shaftesbury Group Limited

2012-2014

- Developed and implemented responsive and user-friendly web interfaces using HTML, CSS, and JavaScript.
- Collaborated with design teams to translate wireframes and mockups into visually appealing and functional web pages.
- Ensured cross-browser compatibility and optimize web applications for various devices.
- Wrote clean, efficient, and well-documented code following industry best practices.
- Creating manual tests and execution of manual test scripts.
- Defect reporting and tracking using SharePoint.
- Providing objective feedback to software development project teams Designing tests to mitigate risks.
- Created nodes and slaves for executing the tests.

EDUCATION & CERTIFICATIONS

- Master of Science - Information Technology
- Professional Certification in Machine Learning and Artificial Intelligence – Imperial College, London
- Bachelor of Science - Information Technology
- TOGAF certified Enterprise Architect Foundation
- Harvard Certified Connected Manager
- University of Michigan – Python Certification
- Python for Data Science and AI – IBM
- Developing Cloud apps with Node.js and React – IBM
- Tricentis Tosca Automation Specialist Level 1&2
- ISTQB Certified Foundation Tester
- ISTQB certified Agile Tester

SKILLS & COMPETENCIES

- Java
- JavaScript
- Python
- HTML & CSS
- Selenium WebDriver
- Appium
- Web Development
- Automation frameworks development
- CI/CD pipeline development and implementation, GitHub (Actions, Pages), Jenkins, AWS Cloud components
- Machine Learning Algorithms
- Data optimization
- Data Science & Data visualization
- ELK (OLK): Elasticsearch (Opensearch), Logstash and Kibana
- Docker
- PowerBI
- RestAPI, SoapUI
- SAP
- Salesforce

CITIZENSHIP & ELIGIBILITY

- Citizenship - UK
 - Permanent Resident (Green Card Holder) - USA
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