





# AVRAAJ MATHARU

## CONTACT

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## EXPERTISE & SKILLS

- **DevOps** - Linux(ARM & X86 architecture), Shell / Bash Scripting, Creating and Maintaining VMs & Servers, Vagrant, Rosetta, Developing and maintaining CI /CD pipelines, Containerization - Docker images & containers, Kubernetes, Terraform, YAML file configurations, GitOps, Azure DevOps, AWS CodeBuild, AWS CodePipeline, Jenkins, Ansible.
- **Software Development** - JavaScript, Node.js, ReactJS, JSX, jQuery, HTML, CSS, APIs, and Bootstrap.
- **Cloud platforms** - AWS & MS Azure
- **Operating Systems** - Windows, MacOS, Linux, Ubuntu, Fedora, CentOS.
- **Automation** - Java, Selenium, Appium, BDD, Cucumber, Gherkin, Page Object Model, Robot, Tosca, POSTMAN, ReadyAPI, MOCHA, Jest, CHAI, WebdriverIO, ELK / OLK Stack, Building CI /CD pipelines, JIRA, Keyword driven / Data driven/ Hybrid frameworks and more across Agile and Waterfall SDLC methodologies.
- **Data Science, ML and AI algorithms** - AI/ML Alchemist providing guidance from fundamentals to advanced topics, excelling in evaluating predictive performance and navigating the landscape of deep learning. Python, Scikit-learn, Tensorflow, Numpy, Pandas, Matplotlib, Seaborn, Decision Trees, Confusion Matrix, KNNs, Logistic Regression, SVM, Neural Networks, CNN, Deep Learning, HyperParameters, Reinforcement Learning.

## REFERENCES

**Darren Coupland (EVP, Head of Sogeti UK)**

 darren.coupland@uk.sogeti.com

**Gary Moore (VP, Sogeti UK)**

 gary.moore@uk.sogeti.com

**Declan Griffin (Sales Director, Capgemini /Sogeti UK)**

 declan.griffin@sogeti.com

## MEMBERSHIP & REPRESENTATIONS

- Lead Technologist at Sogeti UK
- UK Guild Lead for Innovation, AI & New technologies
- UK Representative for Global Architects,
- UK Representative for AI/ML
- Member of SogetiLabs UK

## WORK EXPERIENCE

### Automation Architect / DevOps Engineer / Developer

<b>Capgemini UK Plc (Sogeti)</b>	2019-Current
<i>UKHSA - Public Health Sector</i>	2020-Current

- Finalist, European Software Testing Awards 2022.
- Led multiple teams across various sub-projects, developing a robust automation framework for the COVID-19 Test & Trace app across Android, iOS, and web platforms using Java, Appium, RestAssured, Selenium, BDD, Cucumber, and Gherkin for development.
- Established and managed a streamlined CI/CD pipeline using AWS CodeBuild, CodePipeline, and GitHub Actions, ensuring seamless integration and deployment.
- Integrated Docker containerization into the workflow using YAML and Terraform configurations, optimizing resource management.
- Managed VPCs, created and managed VMs (EC2 instances), S3, CloudWatch, ECR, ECS, EKS proficiently for efficient application deployment and data storage.
- Generated comprehensive Test and Automation reports weekly, harnessing ML insights via ELK (OLK) dashboard for continuous improvement.
- Applied a holistic approach, combining DevOps and Technical Architect expertise to drive innovation and efficiency in software development and deployment processes.
- Provided technical expertise in security and infrastructure assessments, evaluating vendor tools based on Enterprise Architecture Principles for optimal solutions.
- Crafted meticulous Automation Test Strategies and plans, conducting thorough feasibility analyses to ensure efficacy.

## GEN AI AMPLIFIER

<b>Capgemini UK Plc (Sogeti)</b>	Current
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- Contributed to GenAI Amplifier (In house GenAI tool) development, enhancing functionality and usability.
- Implemented SonarQube and GitHub security scans in Azure DevOps pipeline via Docker Containers and GitHub Actions.
- Created and managed AVMs, Azure Blob storage, ACI, AKS.
- Led front-end features development for GenAI Amplifier: code generation, refactorization, and test case generation.
- Applied coding best practices and React Router DOM for optimized page load performance.
- Actively engaged in brainstorming, code reviews, and team meetings to improve tool functionality.
- Collaborated with cross-functional teams to ensure smooth task execution and alignment with project goals.

## Software Test Automation Architect

Capgemini UK Plc (Sogeti)

Spirit Energy & Welsh Water - Utility sector

2020

- Architected Test Automation framework with Tricentis Tosca for SAP SuccessFactors.
- Setup automation environment with VMs, VDI's, and Tosca Server for overnight tests.
- Evaluated automation tools, driving coding standards for scripts.
- Produced daily/weekly automation reports for tech and management.
- Established as key technical contact, managed stakeholders effectively.

## SAP Software Development Engineer in Test

Capgemini UK Plc (Sogeti)

British Aerospace and Defence Systems - Defence

2019-2020

- Designed Test Automation framework and scripts for SAP migration from SAP R/3 to SAP S/4 HANA.
- Orchestrated CI pipeline using Tosca Server / Jenkins to align with DevOps principles.
- Engineered and executed Automation Test Strategy and Plan.
- Evaluated and implemented Automation test tools for a greenfield project.
- Demonstrated technical prowess by integrating client's PLM, Workflow Management tool with Tricentis Tosca through PoC presentations.
- Conducted comprehensive analysis of environments, infrastructure, and UI functionality to devise Test Automation implementation plan.
- Presented client demonstrations highlighting the advantages of transitioning from manual to automated testing.
- Implemented Tricentis Tosca for developing and scheduling automated test runs.

## Software Automation Architect / Delivery Lead

Capgemini UK Plc (Contractor)

Ministry of Defence UK

2018-2019

- Developed and maintained robust automation frameworks:
- Framework 1: Java, Selenium WebDriver, BDD (Cucumber, Gherkin), Page Object Model.
- Framework 2: JavaScript, Mocha test framework, Grunt, WebDriverIO, Chai assertion library for MoD projects.
- Maintained and executed automation scripts using F# on Canopy Test framework.
- Introduced Agile methodologies (Scrum, Kanban) to enhance testing efficiency and delivery speed.
- Managed Test environments on Linux OS, including deployment, snapshot management, and environment upkeep using Shell scripting.
- Configured and executed overnight tests using Jenkins and TeamCity for Continuous Integration and Continuous Deployment.
- Utilized Micro Focus ALM and UFT for automation script maintenance and execution.
- Contributed to Test strategy creation, planning, automation framework development, script execution, and report generation.
- Scheduled and automated tests using Micro Focus ALM and UFT 14.0.
- Managed Statement of Work activities and led teams, achieving 100% revenue realization.
- Facilitated active engagement with stakeholders for commercial sign-off and proficiently managed billing processes.

## Software Development Engineer in Test

Capgemini UK Plc

2016-2018

Royal Mail UK Plc

2017-2018

- Enhanced existing automation framework with Java and Selenium for improved productivity and efficiency.
  - Implemented REST API Automated Testing with SoapUI, enhancing testing capabilities.
  - Utilized Groovy scripting language to integrate tests and manage test data effectively.
  - Created mocks/stubs for web service responses using Java and Groovy scripting.
  - Led Sprint Planning and Retrospective meetings, driving Agile methodologies adoption.
  - Facilitated Automation Tool selection for web and API testing, ensuring optimal solutions.
  - Developed integration between JMeter and Jenkins for one-click API Automation test execution, aligning with DevOps architecture.
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## Software Development Engineer in Test

Capgemini UK Plc

Talk Talk - Telecommunications

2016-2017

- Pioneered Agile-driven Test Automation integration.
- Architected Selenium Automation framework leveraging Java, TestNG, and Page Object Model.
- Enhanced Test cycle time, coverage, and release quality.
- Conducted workshops on Selenium, Java, and TestNG for QA community empowerment.
- Engineered Java-based utilities for automated Test Data creation.
- Developed and managed web-based automation portal for seamless Bugzilla-JIRA integration.
- Contributed to tool selection for Java-based windows desktop applications.
- Led Automation Testing across two concurrent projects, balancing execution and project management duties.

## Software Development Engineer in Test

DHL Ltd. (Formerly UK Mail)

2014-2016

- Developed automated test scripts for online, mobile, and web-services testing across STLC and SDLC.
- Extracted, designed, and developed test cases for both client-server and web applications from requirements specifications.
- Automated web-services testing in SOA environment using SoapUI.
- Conducted load testing and stress testing using JMeter and SoapUI.
- Implemented automation testing in Test Driven Development (TDD) environment.
- Executed alpha and beta testing for UAT, functional testing, GUI testing, regression testing, and system testing.
- Generated mock responses (service virtualization) using Service V, Service VPro, and SoapUI.
- Utilized Groovy scripts to manipulate test data, trigger test suites, etc.
- Conducted cross-browser testing (browser compatibility).
- Managed test repository in Team Foundation Server (TFS) and Microsoft Test Management (MTM).
- Utilized defect raising and tracking tools like Jira, SharePoint, TFS, and MTM.
- Generated periodic test reports and provided timely updates to Test Manager, Project Manager, and Business Manager.
- Worked with RDBMS and SQL scripts for database querying.

## Web Software Developer

Freelance - Various

2011-2014

- Developed and implemented responsive and user-friendly web interfaces using HTML, CSS, and JavaScript.
- Collaborated with design teams to translate wireframes and mock-ups 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.

## Web Software Developer

Atos

2009-2010

- Developed and implemented responsive and user-friendly web interfaces using HTML, CSS, and JavaScript.
  - Collaborated with design teams to translate wireframes and mock-ups 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.
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## PRE - SALES/ PRESENTATIONS / TECHNICAL INTERVIEWS

- Led extremely challenging and critical accounts across diverse sectors with varied teams. To name a few example of these accounts - UKHSA (UK Health Security Agency) and MoD (Ministry of Defence) where I managed to turn around the account into a profit generating account for Sogeti UK by establishing stake holder relationships, implementing new technologies, paving way for business development by successfully achieving contract extensions and increasing resource head count on the accounts.
- Oversaw onsite and offshore teams of on an average 30 - 35 professionals, spanning Automation Engineers, DevOps Engineers, Developers, Testers, and Infrastructure managers.
- Domain experience includes Utility sector, Health sector, Aerospace and Defence systems, Telecom, Retail, Supply chain & Logistics, and Hospitality sectors.
- Engaged in both internal and external client-based technical discussions at Sogeti/Capgemini for implementing process, technical & project innovations and new technologies.
- Developed Business and involved in Pre-sales Activities including contributing to RFPs, Bid responses & preparations, and client presentations, playing an important role in business growth.
- Demonstrated ability to pilot accounts and drive business improvements for Sogeti thus increasing business revenue at multiple levels and occasions.
- I have a proven track record and ability to turn challenging accounts into profit making accounts for the firm.
- Contributed significantly to the recruitment process as a member of the Technical Interview Panel.
- Leveraged expertise in technical assessment and evaluation to identify and onboard top talent, ensuring a high caliber of staff for key roles.

## EDUCATION & CERTIFICATIONS

- Masters of Science - Information Technology
- Professional Certification in Machine Learning and Artificial Intelligence – Imperial College, London
- Bachelor of Science - Information Technology
- AWS Certified Solution Architect Associate - May 2024
- AWS Certified DevOps Engineer - Professional - June 2024
- Microsoft Certified: DevOps Engineer Expert - July 2024
- 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