AVRAAJ MATHARU

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EXPERTISE & SKILLS

- AI / ML Alchemist providing guidance from fundamentals to advanced topics, excelling in evaluating predictive performance and navigating the landscape of Deep learning. Python, Scikitlearn, Tensorflow, Numpy, Pandas, Matplotlib, Seaborn, Decision Trees, Confusion Matrix, KNNs, Logistic Regression, SVM, LangChain, RAG, Neural Networks, CNN, Deep Learning, HyperParameters, Reinforcement Learning.
- 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.
- 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.
- 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.

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

AI / GenAl Architect

Capgemini UK Plc (Sogeti)

Current

- Contributed to GenAl Amplifier (In house GenAl tool) development, enhancing functionality and usability.
- Implementation of LangChain and RAG (Retrieval Augmented Generation) for GenAl Amplifier
- Contributed towards the GenAl Amplifier Architecture MsAzure and AWS.
- Feature owner for Code Generation and Code Transformation features.
- 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 GenAl 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.
- Involved in development of JumpStarts USA GenAl tools AIDA, Copilot, etc.

Tehnical Transformation Lead / Sr Automation & Al Architect / DevOps Engineer

Capgemini UK Plc (Sogeti)

2019-Current

UKHSA - Public Health

2020-2024

- 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. Handled environment configuration management using Ansible.
- Managed VPCs, created and managed VMs (EC2 instances), S3, CloudWatch, ECR, ECS, EKS proficiently for efficient application deployment and data storage.
- Introduced and Implemented Al driven test automation.
- Generated comprehensive Test and Automation reports weekly, harnessing ML insights via ELK (OLK) dashboard for continuous improvement.
- Applied a holistic approach, combining GitOps, 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.

Capgemini UK Plc (Sogeti)

- 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 thus increasing business revenue at multiple levels and occasions
- . I have a proven track record and ability to turn challenging accounts into profit generating 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 calibre of staff for key roles
- · Key trusted resource to conduct presentations, tech talks and brown bag sessions for Sogeti GenAl offerings.
- Presented Sogeti GenAl capabilities at UKHSA Annual Conference and NHSBT conferences.

Software Test Automation Architect / Delivery Lead

Capgemini UK Plc (Sogeti)

Spirit Energy & Welsh Water - Utility

2020

- Effectively managed and coordinated teams of automation and environment engineers, overseeing both onshore and offsite
 operations across two concurrent projects. Demonstrated exceptional leadership and achieved a 100% on-time delivery rate
 for both clients.
- Architected a Test Automation framework utilizing Tricentis TOSCA specifically tailored for SAP SuccessFactors.
 Established automation environments utilizing virtual machines (VMs), virtual desktop infrastructure (VDIs), and TOSCA Servers for executing overnight tests.
- Developed Test Automation Strategy & Plans and Conducted thorough evaluations of automation tools and implemented
 coding standards for scripts, ensuring consistency and reliability. Generated detailed daily and weekly automation reports
 for technical and management stakeholders, providing valuable insights into project progress.
- Served as the **primary technical point of contact & trusted partner**, effectively **managing relationships** with **stakeholders** and ensuring clear communication channels throughout the project lifecycle.

SAP Software Development Engineer Lead

Capgemini UK Plc (Sogeti) 2019-2020

British Aerospace and Defence Systems - Defence

- Developed and crafted a SAP test automation framework through comprehensive analysis of client systems. Introduced the
 framework's advantages by delivering engaging presentations and Proof of Concepts (PoCs), resulting in successful
 implementation of automation solutions for the client.
- Successfully Designed Test Automation framework 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 - Defence 2018-2019

- Effectively managed and led a multidisciplinary team consisting of automation testers, database administrators, and database testers for a critical government defence project. Spearheaded a comprehensive overhaul of testing tools and technologies through thorough analysis and evaluation of systems, applications, and tools.
- Played a pivotal role in assisting clients in selecting appropriate automation tools and technologies. Led the successful
 implementation of chosen tools and technologies, ensuring alignment with project requirements and objectives.
- 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.
- Developed Test Automation Strategy and Test Plans. 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.

Sr Software Development Engineer in Test

Capgemini UK Plc 2016-2018

Royal Mail UK Plc - Logistics 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.

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) - Supply chain and Logistics

2014-2016

- . Developed automated test scripts for web, 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 - Hospitality 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.
- Used media queries for developing responsive web designs.
- Utilized front end libraries for created dynamic, clean and responsive websites
- Providing objective feedback to software development project teams Designing tests to mitigate risks.
- · Created master and nodes 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.
- Used media queries for developing responsive web designs.
- Utilized front end libraries for created dynamic, clean and responsive websites

EDUCATION & CERTIFICATIONS

- Masters of Science Information Technology
- eMasters in Artificial Intelligence and Machine Learning Indian Institute of Technology (IIT) Kanpur (2025 cohort)
- Professional Certification in Machine Learning and Artificial Intelligence Imperial College, London
- Bachelor of Science Information Technology
- TOGAF certified Enterprise Architect Foundation
- AWS Certified Solution Architect Associate May 2024
- AWS Certified DevOps Engineer Professional June 2024
- Microsoft Certified: DevOps Engineer Expert July 2024
- Harvard Certified Connected Manager
- University of Michigan Python Certification
- Python for Data Science and AI IBM
- Developing Cloud apps with Node.is and React IBM
- Tricentis TOSCA Automation Specialist Level 1&2
- · ISTQB Certified Foundation Tester
- ISTQB certified Agile Tester

AWARDS & RECOGNITIONS

- STAR Performer 2022 Sogeti / Capgemini UK
- GEMS Best Innovation to Support Project Delivery- Sogeti / Capgemini UK
- STAR Performer 2021 Sogeti / Capgemini UK