





AVRAAJ MATHARU

DEVOPS ENGINEER / SOFTWARE AUTOMATION ARCHITECT/ TECH
INNOVATION / DATA SCIENCE ML AI

CONTACT

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EXPERTISE & SKILLS


- Renowned as a Technical Virtuoso, I navigate the **SDLC and STLC** with precision.
- DevOps Engineering - **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 - **HTML**, **CSS**, **JavaScript**, **Node.js**, **ReactJS**, **JSX**, **jQuery**, **APIs**, and **Bootstrap**.
- Cloud platforms - **AWS & MS Azure**
- Operating Systems - **Windows**, **MacOS**, **Linux**, **Ubuntu**, **Fedora**, **CentOS**.
- Automation Architect - **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**, **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 (Vice President, 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

Capgemini UK Plc (Sogeti)	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

Capgemini UK Plc (Sogeti)	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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RFP / BIDS/ PRESENTATIONS / TECHNICAL INTERVIEWS

- Played a key role in supporting numerous public sector and private sector bids, RFPs, and client presentations.
- Demonstrated a keen ability to analyze technical requirements, offer strategic suggestions, and contribute to successful bid submissions.
- Fostered strong client relationships through proactive engagement and responsive communication, resulting in enhanced client satisfaction and project outcomes.
- 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 DevOps Engineer - Professional - June 2024
- AWS Certified Solution Architect Associate - 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