

## SUMMARY

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QA Engineer with 5 years of experience in Manual, automation, performance and functional testing across web, mobile and cloud-native systems. Proficient with Python/Java automation using Selenium, PyTest and Appium. Worked across domains including –Patrolling Robot, Payments and IoT devices testing. Strong experience in CI/CD, DevOps (Jenkins, Docker, GitHub) and cloud platforms including AWS and Azure. Focused in providing scalable solid and secure solutions with the help of test-driven development and cooperation in engineering practices.

## SKILLS

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- **Test Automation:** Python, Java - Selenium, Appium (Mobile).
- **API Testing:** Postman, Rest Assured
- **Performance Testing:** JMeter, Load/Stress testing, Performance optimization and scalability testing
- **CI/CD & DevOps:** Jenkins, GitHub actions, Git
- **Device & cross platform testing:** Browserstack, Android studio.
- **DBMS:** MySQL
- **Test Management Tools:** JIRA, TestRail.
- **Cloud/Containers platform:** AWS (IAM, ELB, EC2, EBS, SQS/SNS, S3, CloudWatch, Cloud9, SageMaker), Azure (IoT Hub), Docker
- **Frameworks:** Pytest, TestNG, Rest assured, DTK (amazon), Pegasus (amazon)

## WORK EXPERIENCE – PROJECTS

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### STEALH.DESIGN, DUBAI (remote)

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#### FIVE – Websites, Ronin, Playa-pacha (QUALITY ASSURANCE ENGINEER)

July 2024 - Sep 2024

- Defined and implemented QA strategies on high traffic hospitality platforms (FIVE Hotels, Ronin, Playa Pacha) including booking engines, user authentication and mobile responsiveness.
- Developed selenium python based test automation suite from scratch for web and mobile to include standard journeys including search, booking, checkout and loyalty enrolment integrated into Jenkins CI/CD pipelines
- Automated mobile device test cases using Python-appium-pytest framework on real devices and emulators using BrowserStack, validating cross platform UX and functional consistency.
- Conducted API and integration testing with Postman for third party services integration like (WhatsApp, Google Maps) by analysing latency, timeouts and recovery handling.
- Performed backend data validation using Mysql that ensures booking integrity, transactions consistency and accurate user records across APIs and UI.
- Simulated real time telemetry streams through Azure IOT hub, validating live dashboard updates, alerts and backend event synchronization under load.

### AMAZON DEVELOPMENT CENTER, CHENNAI

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#### Amazon Astro - Home Robot (DIGITAL ASSOCIATE & SENIOR ASSOCIATE)

Nov 2018 – Dec 2021

- Created and implemented manual and automatic test cases of the patrolling and image capture modes, tested logic of object detection, motion behaviour and edge cases with annotated video and image datasets.
- Tested the compatibility of Astro with Alexa skills, smart home appliances and mobile applications with the stability of voice and touch-activated routines.
- Worked with SDET in developing Python-PyTest framework of an internal ML web based annotation tool to enhance model interaction coverage.

- Assessed model confidence levels and fallbacks during varying lighting, angles and object distances enhancing the accuracy of the ML results.
- Conducted Regression and GUI test on web portals and control apps that had a 14% defect rate and user experience improvement.
- Was the domain QA specialist on the VP module and the Starscream annotation platform where the consistency and quality of training data workflows were maintained.
- Trained new QA employees and automation testers on automation practices, ML behavior verification strategy and data-based test design.

#### **Amazon Payment Services (SUBJECT MATTER EXPERT, QUALITY SERVICES)**

**Dec 2021 - Jan 2023**

- Served as a QA Subject matter expert for secure payment processing APIs (3DS, Tabby, STCPay and bank integrations) within the MENA region by ensuring transaction reliability and fraud prevention.
- Maintained the existing test automation suite for functional, regression and integration test suites targeting REST APIs developed in Spring Boot that focuses on tokenization, authorization, capture and refund workflows.
- Aided and supported SDETs to create a Java based automation framework based on Rest Assured, schema validation and API validation using TestNG/JUnit and Maven. Conducted Postman based API tests by creating and testing test payloads, verifying the format of the response, business logic and the actual receipt of the payment.
- Performed MySQL query-based validation of API database consistency, checking the persistence of transactions, reconciliation and rollback integrity under multi threaded operation.
- Performed load and performance testing using JMeter by load testing through concurrent transaction spikes and measuring throughput, latency and error rate metrics.
- Automated Jenkins pipelines, environment parameterization, post-deployment and generation of HTML reports.

#### **Amazon D2AS (SUBJECT MATTER EXPERT, QUALITY SERVICES)**

**Jan 2023 - Dec 2023**

- Worked as QA engineer on AI-powered chatbot system (Rufus - customer assistant) that was used in Amazon ecosystem (Alexa, Fire Tabs, Prime video, Echo)
- Built and implemented automation suites of chatbot UI and workflows, both on emulators and on real devices, using Selenium (web) and Appium (mobile)
- Conducted REST and APIs testing with PyTest + Requests to test validating NLP interaction flows, API triggers and response payload structures
- Performed peak load performance testing and scalability test of chat bot services using JMeter tuning parameters of backend lambda based handlers
- Real-time flows verified in the API Gateway-Lambda-SQS/SNS with asynchronous messaging queues operating with retries and exceptions notifications
- Employed AWS CloudWatch Logs and Metrics to monitor API latency, invocations failure and chatbot processing delays in real time
- Conductive and tested IAM-based access rules on exposed chatbot APIs in accordance with least privilege principles and defensive endpoints

## **EDUCATION**

Anna University, Chennai - Bachelor of Technology - IT - 6.1

Aug 2012 - May 2016

National College of Ireland, Dublin - Master of Science in Cloud Computing

Jan 2025 - Pursuing