

Avinash Kola

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Connecticut, USA



PROFESSIONAL SUMMARY

Software Development Engineer in Test (SDET) with 2 years of experience in testing web, mobile, and microservice applications. I am skilled in building and maintaining test automation frameworks, API and UI testing, and validating complex e-commerce and healthcare flows. Proficient in Java, Python, Selenium, Appium, TestNG, Postman, and REST Assured. Hands-on experience with CI/CD pipelines using Jenkins, Docker, Kubernetes, and Devtron. Demonstrated expertise in performance, load, and security testing. Adept in Agile methodologies and cross-functional collaboration. AWS certified with knowledge of cloud services including EC2, RDS, and S3.

TECHNICAL SKILLS

Languages & Tools: Java, Python, Selenium, Appium, TestNG, REST Assured, Postman, Jenkins, Git, GitHub

Cloud & DevOps: AWS (EC2, RDS, S3, IAM), Docker, Kubernetes, Devtron

Testing Types: Performance, Security, Load, Stress

Databases & APIs: Firebase Realtime Database, REST APIs

Agile Tools: Jira, TestRail

CI/CD & Automation: Jenkins Pipelines, Selenium Grid, Automation Frameworks

Mobile Testing: Appium for Android and iOS

PROFESSIONAL EXPERIENCE

Software Development Engineer in Test (SDET)

Tata IMG, Gurgaon, India

Feb 2022 – Aug 2023

- Spearheaded the testing strategy for critical cart-to-payment workflows across web and mobile platforms, enhancing reliability and streamlining the checkout process for millions of users.
- Architected and maintained scalable automation frameworks using Java, Selenium, TestNG, and REST Assured, enabling continuous regression coverage and reducing manual testing efforts by over 70%.
- Integrated automation test suites into Jenkins CI/CD pipelines, leveraging Docker and Kubernetes to ensure faster deployments, consistent builds, and reduced downtime during releases.
- Designed and executed robust test plans for Cart 2.0 features including automated cart creation, one-click checkout, and order placement, reducing cart completion time by over 80% and boosting system efficiency.
- Led performance benchmarking, load testing, and security validation using real-time pharmacy service scenarios, ensuring high availability and resilience for over 5 million active users.
- Partnered with engineering and DevOps teams to fine-tune backend service performance, implementing mock services and schema validation to improve API reliability and simulate real-world traffic conditions.
- Actively engaged in Agile ceremonies, contributing to sprint planning, backlog refinement, and QA strategy discussions to ensure smooth delivery and alignment of test activities with evolving product roadmaps.

PROJECTS

What A Trip: Cross-Platform App Development and Firebase-Django Integration

- Engineered cross-platform mobile and web applications backed by Firebase, enabling real-time updates, secure user authentication, and push notification support for seamless user engagement.
- Built a dynamic Django web portal integrated with Firebase, allowing real-time syncing of travel data across devices and ensuring a responsive user experience.

Django Apps Deployment on AWS

- Orchestrated end-to-end deployment of Django applications on AWS using EC2, RDS, and S3, achieving scalable, fault-tolerant backend infrastructure.
- Enhanced application performance and security by configuring IAM roles and setting up CloudFront distributions to ensure efficient content delivery and secure access controls.

EDUCATION

Master's in computer science, University of New Haven, West Haven, CT, USA.

Aug 2023 – May 2025

Bachelor's in computer science and engineering, Amity University Haryana, Haryana, India.

Jul 2018 – Jun 2022

CERTIFICATIONS

- AWS Solutions Architect
- Certified Professional Selenium Tester
- International Software Testing Qualifications Board