

ABDUL TALIB

AI-Driven Automation Test Engineer | Automation Architect | AI Product Builder

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PROFESSIONAL SUMMARY

AI-driven SDET with almost 5 years building enterprise quality-engineering systems and AI-powered automation platforms across Infosys, PepsiCo, and Ulta Beauty. Founder of BugWizard AI, an AI-native QA operations SaaS, and creator of RoboClaw, a published, RAG-powered Robot Framework code-generation extension. Cut test-scripting effort up to 70% and reduced regression cycle time 40% by architecting agentic AI workflows with LangChain, LangGraph, and multi-provider LLMs (Claude, GPT-4, Gemini, Ollama) integrated into CI/CD. Six-time Insta Award winner at Infosys for GenAI and custom agent development. Combines deep automation engineering (Selenium, Appium, Playwright, Robot Framework) with hands-on AI product ownership — from architecture to shipped SaaS.

TECHNICAL SKILLS

Programming: Java, C++, C#, SQL

Automation: Selenium, Appium (Android & iOS), Robot Framework, TestNG, JUnit

API & Performance: Charles Proxy, Dynatrace, Postman,

AI & GenAI: Prompt Engineering, Context Engineering, Loop Engineering, LangChain, LangGraph Agents, RAG, LLM Evaluation, Agentic AI Workflows, MCP (Model Context Protocol), OpenAI API, Claude API, Gemini, Ollama, Hugging Face, ChromaDB, Google ADK

Other AI Software: Github Co-Pilot, Devin (Formerly called Windsurf), Claude Co-Work and Kane AI

DevOps & CI/CD: GitHub Actions, Azure Pipelines, Jenkins, Docker (basics), Git

Test Management: Azure DevOps, JIRA, Confluence

Mobile Testing: UIAutomator2, XCUITest, Appium Inspector, Perfecto, Seetest, real devices & emulators

Testing Types: Smoke, Regression, Integration, Compatibility, Accessibility (ADA), AI-driven test case generation & prioritization

Deployment & Cloud: Vercel, Netlify, Cloudflare, Firebase.

PROFESSIONAL EXPERIENCE

Software Quality Engineer — Automation Tester & AI Product Developer

Oct 2025 – Present

Infosys Limited | India | Serving notice period, relieving Oct 1, 2026

- Led development of **Robogent AI Studio**, an agentic AI platform generating production-grade Robot Framework scripts with a self-healing automation engine and RAG-based AI Copilot using BYOK architecture.
- Architected a local Claude-via-Ollama inference solution, cutting API token consumption and lifting developer productivity by **60%**.
- Designed MCP (Model Context Protocol) integrations with GitHub Copilot and Claude Opus, reducing test-scripting effort by **65–70%**.
- Built the automation framework for PepsiCo's Europe market (Skelm & Sroda) end-to-end in UIAutomator2 using Claude Opus 4.6.
- Built and maintained CI/CD-integrated automation frameworks (Robot Framework, Selenium, Python) across Azure Pipelines and GitHub Actions.
- Directed AI agent development initiatives at Infosys Quality Engineering (IQE); recognized with **6 Insta Awards** for GenAI and custom agent development.
- Ran technical POCs on Devin AI and Cursor AI, building custom workflows, agents, prompts, and skills.

Systems Engineer — Automation Test Engineer, PepsiCo (MFG Pro+)

Mar 2025 – Oct 2025

- Owned end-to-end testing of MFG Pro+, a supply-chain lead-management system (web portal + native iOS app) across global PepsiCo manufacturing operations.
- Automated regression suites with Robot Framework, Python, and Selenium, cutting manual regression time by **40%**.
- Applied GenAI and prompt engineering to generate test cases from user stories, reducing test-case creation time by **60%**.
- Led functional, UI/UX, integration, and performance validation across web and iOS platforms on multiple device configurations.

Systems Engineer — ML Model & KPI Tester, PepsiCo (PEPIRiS)

Jul 2024 – Mar 2025

- Validated ML model accuracy for PEPIRiS, an AI-powered retail execution platform spanning Saudi Arabia, UAE, Mexico, Turkey, Australia, and North America (Walmart & 7-Eleven).
- Owned KPI-accuracy testing, manually verifying backend report output against calculated KPIs to validate ML model correctness.
- Led the KSA and UAE market test effort end-to-end, spanning manual testing and automation scripting.
- Executed regression, sanity, and exploratory testing across 10+ real devices and 5+ cloud simulators in Experitest SeeTest.
- Partnered with the Accenture PACE integration team to validate end-to-end data flow between PEPIRiS and the integrated platform.

Senior Systems Associate — Application Development & Testing, Ulta Beauty

Jun 2023 – Mar 2024

- Built and tested the Cart, Checkout, and All Categories screens of Ulta Beauty's Android app using Kotlin and Jetpack Compose.
- Integrated Amplience headless CMS for dynamic content and tested the Firebase authentication flow
- Conducted unit testing and code reviews to uphold production-quality engineering standards.

Systems Associate — Functional Tester, Ulta Beauty

Mar 2022 – Jun 2023

- Delivered multi-platform testing (web, Android, iOS) for Ulta Beauty's retail platform, logging **200+** defects in JIRA with reproduction and severity data; managed tracking via TFS and Confluence.
- Ran ADA accessibility and cross-browser compatibility testing (Chrome, Firefox, IE, Edge) with Jenkins-integrated CI/CD execution.
- Used Google Bard AI (now Gemini) to generate test cases from user stories and Adobe XD designs, improving coverage and story quality.

AI ENGINEERING EXPERIENCE

Hands-on architecture and delivery of agentic AI systems for software quality engineering — spanning prompt engineering, LLM orchestration, retrieval-augmented generation, and multi-provider integration, applied to real production test-automation problems.

- Designed and implemented a privacy-first local AI architecture integrating Ollama-hosted LLMs with VS Code, enabling secure AI-assisted development and earning appreciation from Infosys and client stakeholders.
- Leveraged DeepSeek-R1, DeepSeek-V3/V4, and lightweight GPT-OSS models through Ollama to generate automation scripts, power self-healing test automation, create functional test cases, automate defect creation, and accelerate retesting workflows.
- Integrated free NVIDIA-hosted AI models with GitHub Copilot using BYOK (Bring Your Own Key) API capabilities, reducing token consumption for routine development tasks and optimizing client AI infrastructure costs.
- Applied prompt engineering and AI-driven test generation to cut manual test design effort by 60–70% across multiple enterprise engagements.

AI PRODUCTS & PERSONAL PROJECTS

BugWizard AI — Founder & CEO

Feb 2026 – Present | bugwizard.in

- Building an AI-native QA operations SaaS automating bug creation, duplicate detection, retest reporting, and evidence handling inside Azure DevOps and JIRA.
- Architected on MEAN stack with multi-provider AI (Claude, GPT-4, Gemini, Ollama), voice-to-text bug capture, vector-embedding duplicate detection, and a custom AI assistant, Ozzy AI.
- Integrated with 6 CI/CD platforms: GitHub Actions, Azure Pipelines, Jenkins, GitLab CI, Bitbucket, and CircleCI.

RoboClaw AI Studio — Published VS Code Extension

- Agentic test-artifact generator producing Robot Framework keyword-driven suites directly from requirements.
- Built a self-correction cycle (CodeGenerator → RFSyntaxValidator, up to 3 retries) that auto-repairs invalid output before delivery.

Ctrl Test AI — VS Code Extension (In Development)

Multi-provider: Claude, OpenAI, Gemini, Ollama

- Generates full automation-testing framework scaffolds from a configuration wizard (language, framework, test runner, design pattern, CI/CD pipeline).
- Supports 10+ LLM providers via a provider-agnostic abstraction layer; produces a complete project scaffold in under 2 minutes.

KEY ACHIEVEMENTS

- **Reduced test case authoring effort by 60–70%** at **PepsiCo** by designing and implementing an AI-assisted test case generation solution, earning **3 Infosys Insta Awards** for innovation and business impact.
- **Reduced manual regression testing effort by 40%** through the development of a scalable **Robot Framework** automation suite for PepsiCo, significantly improving release efficiency and test coverage.
- **Designed, developed, and published RoboClaw**, an AI-powered **RAG-based VS Code extension**, independently taking the product from concept to deployment for real-world users.
- **Founded BugWizard AI**, an AI-driven QA platform featuring intelligent bug reporting, duplicate detection, and Azure DevOps/Jira integration, with a growing pre-launch waitlist and SaaS pricing strategy.
- **Validated machine learning models** for the **PEPIRiS** retail platform across **five global markets**, ensuring prediction accuracy, data consistency, and KPI reliability at enterprise scale.
- **Recognized with 6 Infosys Insta Awards** for delivering high-impact AI solutions, automation innovations, and custom GenAI agents that improved engineering productivity.
- **Received both the Infosys Insta Award and Ulta Beauty Client Appreciation Award** for identifying critical payment gateway defects in the **Afterpay** integration before production release.
- **Led end-to-end quality assurance for GlamLab's AI-powered virtual try-on platform**, validating machine learning-driven makeup and grooming experiences across multiple devices and browsers.

- **Modernized and optimized the automation test repository** by leveraging AI-assisted test design to improve test quality, readability, maintainability, and execution efficiency.

EDUCATION

Master of Computer Applications (MCA) <i>Chandigarh University, Punjab — Computer Software Engineering</i>	Jul 2022 – Sep 2024
Bachelor of Computer Applications (BCA) <i>Veer Bahadur Singh Purvanchal University, Jaunpur</i>	Jul 2018 – Oct 2021

AWARDS & CERTIFICATIONS

- **6x** Insta Award Winner, Infosys — GenAI development, custom AI agent development, outstanding performance (2023–2025); also awarded a Certificate of Appreciation for Outstanding Performance
- GitHub Foundation Certification
- Infosys Certified AI-First Software Engineering
- Infosys Certified Prompt & Context Engineering
- Infosys AI Builder | Infosys AI Consumer | Infosys AI in Test Automation | Infosys Responsible AI | Infosys
- Claude AI Course Certification | Infosys AI Foundation to Advanced Course Certification | Cognizant Ready Set Agile Job Simulation (Forage)