

KEITH HUDSON

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Certified® Scrum Master

Software Quality Assurance Engineering and Automation Expert

US ARMY VETERAN

Highly organized and detail-oriented with a proven track record of successfully designing, developing, automating, and executing test plans within CI/CD workflows and in various testing arenas - Desktop, Web, Mobile, API, Database, Performance, and Hardware/Firmware. Excellent adaptability to the tooling and language preferences of the project. Comfortable taking ownership within collaborative, global, and remotely distributed teams. Well versed in leading successful high-quality release train engineering deployments using a methodically-creative and efficiently-standardized approach leveraging Agile/Scrum and BDD frameworks.

EXPERIENCE

Lead QA Engineer V

Rubicon Carbon (startup company) MAY 2023 – PRESENT

- Principal QA Engineer leading all automated and manual testing efforts within a high-paced Voluntary Carbon Markets startup, working cross-functionally in a globally distributed remote development team.
- Sole automation architect responsible for designing and developing 300+ end-to-end Cypress tests for a heavily permissioned, multi-domain web application and trading platform, enhancing test coverage and efficiency.
- Led the scrum, regression testing, and release/deployment cycles for over 30+ sprints across five environment channels, achieving 100+ production deployments and hotfixes.
- Implemented key tooling and methodology adoption including Jira with Xray Test Management, GitHub Actions, Cypress-Cloud, Slack reporting, web auditing, and Cucumber BDD, which streamlined workflows and improved collaboration.

TOOLS: Jira, Git, GitHub Actions, Cypress, Swagger, Cucumber, cURL, XRay, NPM, Lighthouse, Pa11y, Slack, Grafana, Superset, Auth0, Google stack, some CodeFresh and BitBucket

LANGUAGES: JavaScript/TypeScript, Gherkin, HTML/CSS (Xpath), SQL, Python, Shell

PROMOTIONS: Senior QA Engineer IV > Lead QA Engineer V

Software QA Engineer III

Silvergate Capital (midsize company) AUG 2021 – MAY 2023

- Head QA Engineer for all Digital Channels and Software Engineering projects, responsible for overseeing API & UX/UI automated testing efforts within large-scale, highly-available, and distributed systems.
- As the automation architect, managed tool selection, licensing, test environments, test analysis, dashboard, logging/alerting, event handling, and CI/CD pipelines, automating 300+ UI and 500+ API tests.
- Built and standardized the company's automated test plan, leading the implementation and execution of the overall automation strategy for core API and Web project groups, significantly enhancing test reliability and efficiency.
- Trained and guided BSA DevOps members as functional QA contributors, spearheading the company's adoption of QA methodologies and best practices, including Behavior-Driven Development and Shift-Left testing.

TOOLS: Azure DevOps, Git, SSMS, ASP.NET, TestComplete, Swagger, OpenAPI, ReadyAPI/SoapUI, Cucumber, Postman, LoadRunner, Powershell – some Selenium

LANGUAGES: JavaScript, Gherkin, Groovy, YAML, JSON, HTML/CSS, SQL, Bash, Shell – some Python, Java, & C#

PROMOTIONS: Software QA Engineer II > Software QA Engineer III

Senior QA Engineer

RaceTrac Petroleum (large company) JUN 2015 – AUG 2021

- Lead QA Engineer for all Digital Channels, ETRM, CMS, and FuelOps projects, overseeing both automated and manual testing efforts around customer-facing Web, Desktop, Mobile, Hardware solutions, and internal IT solutions.
- Managed and mentored a team of 3-15 QA members, both on-shore and off-shore, delivering high-quality E2E test coverage, documentation, and analysis through all phases of development, ensuring robust testing processes.
- Maintained multiple test environments, automation projects, repositories, frameworks, test servers, and KPI deliverables, ensuring consistent quality and performance across all projects.
- Selected for a QA Manager position (declined in favor of gaining more automation experience), demonstrating recognized leadership and expertise in QA practices.

TOOLS: Azure DevOps, Jira, TFS, ASP.NET, ServiceNow, Git, SSMS, MongoDB, TestComplete, Appium, Postman, JMeter, LoadNinja, CrossBrowserTesting, BrowserStack, OctoPerf, Fiddler, Powershell – some Selenium & SauceLabs

LANGUAGES: JavaScript, YAML, JSON, HTML/CSS, NoSQL, SQL, Bash, Shell – some Java & C#

PROMOTIONS: QA Analyst > QA Engineer > Senior QA Engineer > QA Manager (turned-down offer)

QA Analyst

Xenail [formerly RTI, Inc.] (small company) JAN 2014 – JUN 2015

- Contributed to automated and manual testing efforts for customer-facing SaaS products, including Web and Desktop-based cloud solutions.
- Managed and maintained manual and automated test case repositories, documentation, and environments, ensuring thorough and accurate testing processes.
- Served as the key tester and UAT lead for the legacy migration to cloud-native architecture, ensuring a smooth transition and improved system performance.
- Migrated existing automation from Selenium and HP's Quick Test Pro to the TestComplete framework, enhancing test automation capabilities and efficiency.

TOOLS: Visual Studio/TFS, SSMS, ASP.NET, TestComplete, HP Quick Test Pro, Powershell – some Selenium

LANGUAGES: VBScript, HTML/CSS, SQL – some Java

PROMOTIONS: QA Internship > Junior QA Analyst > QA Analyst

SKILLS & CERTIFICATIONS (GOOGLE DRIVE)

Methodologies/Models: QA & ISTQB Standards, TDD, BDD, OOP, ADA/WCAG, UX, XP, V-Model

Automation: (UX/UI) Web/Desktop/Mobile | (API) Functional, SOAP/REST, Perf, Load | JavaScript, Gherkin, Python, VB, SQL

CI/CD: Azure, GitHub, GitHub Actions, CodeFresh (some Bitbucket & Jenkins)

- **ScrumAlliance®:** Certified Scrum Master (CSM® 2020-present)
- **HarvardX/MIT CS50:** Intro to Computer Science
- **Deque University:** Web Accessibility Curriculum 2.0 (IAAP) - ADA Certified Training
- **Smartbear Community:** 3x Leader of the Quarter ('22-Q3, '22-Q4, '23-Q1) | 2022 Hero Nominee
- **Smartbear Academy:** #4 in Worldwide Leaderboard (2023)
- **Smartbear Certificates:** TestComplete | Zephyr | Swagger | ReadyAPI | Bugsnag | CucumberStudio | LoadNinja
- **Coursera Certificates:** Python | ARCore | Git/GitHub | Python w/OS Interaction
- **Programming Hub:** Python (x5) - Py3, Advanced, ML, & AI | Django | Flask | Computer Vision | Flutter | Dart

EDUCATION & TRAINING

2012 - 2015

B.B.A. INFORMATION SYSTEMS,

KENNESAW STATE UNIVERSITY (3.6 GPA)

2008 - 2012

U.S. ARMY VETERAN,

DEPARTMENT OF DEFENSE (92R)

2004 - 2005

MARKETING MAJOR,

AUBURN UNIVERSITY (FOOTBALL WALK-ON)