

Mark McRae

Senior Test Automation Engineer

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Professional Summary

Test Automation Engineer with 8+ years of experience specializing in enterprise-scale automation frameworks, full-stack testing solutions, and CI/CD integration. Expert in Go and Java with proven track record of reducing testing cycles by 70% while maintaining 99%+ reliability. Built comprehensive automation platforms serving multiple product teams with advanced desktop applications using Fyne UI. Strong background in API validation, front end automation, performance testing, and mobile testing.

Core Technical Skills

Programming Languages: Go (Advanced) • Java (Advanced) • Python (Basic) • JavaScript (Basic) • SQL(Proficient) • HTML/CSS(Proficient)

Testing Frameworks: Go Testing • Selenium WebDriver • TestNG • Robot Framework

Desktop Development: Fyne UI with Go • Cross-platform GUI applications

CI/CD & DevOps: GitHub Actions • GitLab CI • Docker • Azure DevOps

Databases: MongoDB • SQL Server • PostgreSQL • Database Testing and Validation

Cloud & Infrastructure: AWS S3 • Hyper-V • Containerized Applications • Microservices Testing

Professional Experience

Pinata | Quality Assurance Automation Engineer | *October 2021 - Present*

Orlando, Florida (Remote)

Enterprise Go Test Automation Platform:

- Architected and developed comprehensive Go-based testing platform serving multiple product teams
- Built full-stack coverage for web application frontend, backend APIs, and database testing
- Achieved complete test pyramid coverage: unit, integration, feature, and end-to-end testing
- Created automated test data management with data creation, cleanup, and environment provisioning
- Developed desktop UI using Fyne for test execution, data management, and performance analytics
- Implemented dynamic reporting: Slack, HTML dashboards, Workflow results, email and JSON APIs

Scalable Java Automation Framework:

- Built high-performance Java test suite with TestNG and Selenium integration
- Designed custom parallel execution architecture scaling limited only by compute resources
- Implemented seamless CI/CD integration with GitHub Actions and GitLab pipelines
- Created flexible reporting system with HTML visualization and JSON output for analytics

API Integration & Testing:

- Conducted testing for Stripe payments, AWS S3, Google APIs, and Cloudflare APIs
- Performed microservices testing including service mesh validation and contract testing
- Validated authentication flows, rate limiting, and inter-service communication

Mobile Automation & Testing:

- Developed mobile test automation suite using Go and Appium with WebDriver Client integration
- Built custom mobile testing tools and applications leveraging Android SDK/NDK capabilities

Key Achievements:

- Reduced testing cycles by 70% through comprehensive automation implementation
- Enabled daily deployments with 99% automated test coverage
- Created automated feature frameworks for faster deployment cycles and improved release velocity
- Created reusable frameworks that can be run from anywhere

CVS Health | IT Quality Assurance Analyst | *August 2017 - September 2021*

Greater Omaha Area (Remote)

Automation & Framework Development:

- Developed Java-based automation scripts using Selenium for comprehensive webapp testing
- Created desktop application data tool combining all aspects of system inputs and outputs
- Designed lite SQL query application with Java and JDBC for precise database queries

Test Strategy & Execution:

- Developed master test strategies for functional, automation, regression, and negative testing
- Conducted performance, UI, and backend testing for databases and web application servers
- Managed test environment access administration across 13 different environments

Process Improvement:

- Automated environment access administration combining Java, PowerShell, and SQL scripts
- Analyzed Java source code and change sets for defect identification and timeline reduction
- Created executable JAR files for automation of simple to complex testing tasks

Military Experience Highlights

Defense Language Institute | Program Manager | *2015 - 2017*

- Managed academic technology projects across full lifecycle for 5,000+ student organization
- Project Manager for major institute events including Language Day 2016

Afghanistan War Veteran | *2012*

Iraq War Veteran | *2009*

National Security Agency | Senior Intelligence Analyst & Supervisor | *2003 - 2010*

- Supervised 37-member intelligence analysis team across multiple disciplines
- Managed \$2M+ computer systems, maintained 100% accountability of classified materials

Education & Certifications

Microsoft Software Systems Academy - Server and Cloud Administration (2017)

Defense Language Institute - Associate of Arts, Persian Farsi Studies (2003)

Professional Certifications:

Oracle Java SE II Programmer I

Microsoft Technology Associate: Networking Fundamentals