

# Milton Andrew Johnson

Software Tester

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## **PROFESSIONAL SUMMARY**

Detail-oriented and technically grounded entry-level Software Tester / QA Engineer with a B.S. in Information Technology and hands-on experience working on production-level applications. Skilled in designing, automating, and executing tests across the full stack using tools like Playwright, Selenium WebDriver, Jest, and Supertest.

Comfortable working with REST APIs, WebSockets, and CI/CD pipelines in Agile team environments. Strong in debugging, bug tracking, and test planning with tools like Jira and VS Code, with additional experience integrating Jenkins for automated workflows. Brings a unique blend of development and QA insight, with a focus on building and testing high-quality, reliable software.

## **PROFESSIONAL EXPERIENCE**

### **Software Tester / QA Intern (Full Stack Web Developer Internship)**

**Next Play Nation** — April 2025 – June 2025 - Completed | [Live Project Internship Web App](#)

[Recommendation Letter](#)

*Completed a full stack web development internship focused on delivering a scalable and secure platform for sports league and internship management. Took a lead role in implementing software testing and quality assurance practices across the application.*

- Designed and executed automated end-to-end testing using Playwright for client-side testing and Selenium WebDriver for server-side testing.
- Built test suites for critical UI components (e.g., navbars, modals, dynamic calendars) and validated visual rendering, user interactions, and cross-browser performance.
- Developed REST API test coverage using Jest and Supertest, verifying key functionality such as authentication, CRUD operations, and error handling.
- Used ChromeDriver with Selenium to simulate browser-based workflows and validate server responsiveness under real-world conditions.
- Integrated playwright.config.ts for consistent test behavior across environments and organized modular test files for reusable, maintainable testing.
- Set up test assertions for logos, headers, and component visibility using precise locators and conditionals.
- Tracked bugs, documented test cases, and collaborated in sprints using Jira, improving transparency and resolution cycles.
- Contributed to a CI/CD pipeline with Jenkins, gaining exposure to automated test execution and build processes.
- Interpreted pass/fail states via the Playwright Testing Panel and console logs to isolate regressions, performance bottlenecks, and UI defects.
- Version-controlled all test automation in GitHub and collaborated using Git branches and pull requests for feature validation.

Showcases production-grade full stack architecture, real-time communication, iterative Agile delivery, error resilience, and AWS-powered deployment pipelines.

## SELECTED QA PROJECTS

### **Shoe Store E-Commerce App** (*MERN Stack*) [See Project Live](#)

Designed and built a secure e-commerce web and mobile app for shoe sales, featuring JWT authentication, bcrypt password hashing, secure cookie storage, and Stripe payments. Implemented rate limiting, brute-force protection, and duplicate account prevention. Developed full cart, checkout, and order flow with validation, structured error handling, and a responsive UI optimized for mobile devices.

- Implemented automated API testing using Jest and SuperTest to validate authentication, route protection, and response handling for a Node.js/Express backend
- Developed end-to-end UI tests with Playwright to simulate real user flows, ensuring reliability across login, checkout, and Stripe payment interactions
- Containerized the entire application with Docker, enabling seamless deployment and consistent environment parity across development and production.

### **University Mobile App** (*React Native*) [See Project Live](#)

Built a demo university mobile app designed to engage students with dynamic content, articles, event updates, and contact forms.

- Highlights: Article search/filtering, pagination, reusable UI components, form validation.
- Delivered consistent mobile UX using navigation containers and image carousels.

## EDUCATION

**B.S. in Information Technology** — *Concentration: Software Engineering* | **Middle Georgia State University**, Macon, GA

## TECHNICAL SKILLS

- **Testing Tools:** Playwright, Selenium WebDriver, ChromeDriver, Jest, Supertest
- **Programming Languages:** JavaScript, TypeScript, Node.js, Java
- **Frontend:** React.js, React Native, Tailwind CSS, Context API
- **Backend:** Express.js, Spring Boot, MongoDB
- **Test Automation:** Unit, UI, API, Functional, End-to-End Testing
- **Dev & Debugging Tools:** VS Code, Git, GitHub, Browser DevTools, Terminal
- **Bug Tracking & CI/CD:** Jira, Jenkins,, AWS (EC2, Amplify, Elastic Beanstalk)

### Key Accomplishments – Full-Stack Web Developer Internship -Next Play Nation

- Automated full stack testing workflows using Playwright, Selenium, Jest, and Supertest.
- Built modular, scalable test suites across UI and API layers, improving test coverage and maintainability.
- Collaborated in Agile sprints to report, track, and resolve bugs using Jira.
- Gained hands-on experience with CI/CD integration using Jenkins and GitHub Actions for automated testing pipelines.
- Validated RESTful APIs, authentication flows, and real-time features with API test automation.
- Strengthened software QA knowledge by actively contributing to bug prevention, documentation, and sprint planning.