GABIEN D. BRYAN

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Professional Summary

Detail-oriented Quality Engineer with four years of experience bridging software development and quality assurance. Proven track record of building scalable, maintainable testing frameworks and contributing production-level code for products. Currently transitioning into a Software Engineering role with a focus on test automation infrastructure, developer tooling, and UI.

Professional Skills

Languages: TypeScript, JavaScript, C, C++, Python, Java, Assembly
Frameworks & Tools: Playwright, React, Git, Visual Studio, Postman, Kraken, Cypress, gdb
Platforms: Azure DevOps, Microsoft Installer, KQL, Windows, Linux
Practices: Agile-Scrum, CI/CD pipelines, Component libraries, Automation

Experience

Software Quality Engineer – Minitab, LLC (2021-Present)   State College, PA // Remote

- Built a custom Playwright testing framework in TypeScript for scalable and maintainable end-to-end test automation.
- Expanded framework compatibility to support interactive canvas-based apps using custom GoJS utilities.
- Mentored and upskilled Quality Engineers to write automated tests using the framework, reducing manual test time and increasing automation coverage.
- Developed a new context menu feature for Minitab's cloud storage menu using React, an internal UI library, and in-house APIs. The feature enables users to open files directly in existing projects, improving workflow efficiency.
- Investigate and resolve complex customer-facing issues using Azure App Insights and Kusto Query Language (KQL).
- Execute thorough testing of installation, update, and licensing flows involving MSIs, executables, license keys, telemetry, and legal agreements.
- Perform API validation and vulnerability testing using Postman.

Projects

Custom Playwright Framework *2024*

- Designed and implemented a reusable Playwright test framework in TypeScript tailored for web-based applications.
- Supports both persistent and isolated test strategies with shared authentication state.
- Supports concurrent multi-app testing via multiple page contexts.
- Integrated into Azure DevOps pipelines for continuous testing, Teams notifications, and HTML reporting.

Cloud Storage Context Menu – React Component *2024*

- Designed and implemented a new context menu for file operations within a React-based cloud storage UI.
- Integrated internal APIs and reused company's in-house UI components.

Robotic Car Project *Undergraduate Capstone*

- Built a self-driving robotic car using Raspberry Pi, infrared sensors, and multithreaded C code with PWM for autonomous control.

Education

B.S. in Computer Engineering: The Pennsylvania State University, University Park, PA
Relevant Coursework: Memory Allocation and Management, Thread Scheduling, Multithreading, Microcontrollers, Algorithms, Computer Vision