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BRE RICKNER   SOFTWARE QUALITY ENGINEER

Software engineering, oh what a treat
A world of quirks and bugs to defeat
We write and code, and then we test
Unless you ask Bre, who thinks TDD is best

We curse at compilers, and at runtimes too
And wonder why our code isn't doing what it's supposed to do
We chase after null pointers and race conditions
And all sorts of strange coding traditions

So here's to software engineering, a world of its own
With its own language, its own tone
We may grumble and complain, but we all know
That there's nothing quite like the thrill of making software flow!

WORK EXPERIENCE

Associate Software Quality Engineer
Quantum Metric   *Aug 2022 – Mar 2023*

Swift, Typescript, CSS, Objective-C, UIkit, Selenium Grid & WebDriver, Redis,, Xcode, XCUITest, XCTest, Instruments, TestFlight, Charles Proxy, Gitlab, Jira, Docker, Postman

- Leveraged Selenium WebDriver to rigorously automate tests for our product's instrumentation source code, helping to identify and rectify 50+ potential integration issues, ensuring a seamless deployment and preserving user experience.
- Orchestrated integration testing phases, validating seamless inter-component communications and interactions, successfully identifying and mitigating integration anomalies.
- Actively participated in weekly Agile ceremonies, including sprint planning poker sessions and stand-ups, while contributing actionable feedback during retrospectives to enhance team efficiency and project results.
- Developed robust integration tests to ensure system reliability in a monolithic code base environment where traditional unit tests were infeasible, enhancing overall software stability and quality.
- Crafted and maintained comprehensive testing documentation, including the development of over 75 test plans and cases, while diligently updating bug reports and monitoring critical testing metrics, resulting in enhanced defect detection and a streamlined QA process.
- Developed and executed automated tests using Redis as a caching layer, increasing test performance and reducing data access time.
- Conducted at least one code walkthrough and pair programming session a week to ensure the effectiveness and comprehensiveness of white box tests.
- Implemented advanced instrumentation testing protocols, validating precise software component integrations, which led to a 99% accuracy rate in data collection and reporting.

- Proactively mentored two new team members, enhancing their integration test-writing efficiency and ensuring complete adherence to our code style and standards.
- Optimized and validated tests to proficiently handle both XHR and Fetch requests, ensuring comprehensive coverage and robust API interaction across multiple platforms.
- Managed and prioritized 5+ projects simultaneously, ensuring a 95% on-time delivery rate.
- Partnered with cross-functional teams to define comprehensive acceptance criteria, and integrated sanity test suites, which boosted user satisfaction after new version deployments.
- Reviewed, tested, and approved 20+ merge requests a month, ensuring code quality and seamless integration into main branch using GitLab CI/CD.
- Led cross-device and cross-version testing efforts to ensure application compatibility across 10+ different iOS devices and three iOS versions.
- Developed, maintained, and executed over 150 automated test scripts using Mocha & Chai in the JavaScript ecosystem.
- Leveraged Selenium WebDriver to execute cross-browser tests, ensuring consistent functionality across at least four major browsers to enhance software compatibility.
- Evaluated third-party tools and libraries for integration into the iOS testing ecosystem, optimizing workflows and expanding testing capabilities.
- Conducted performance and load testing on customer iOS applications, ensuring smooth user experience when our iOS SDK was injected into their application.
- Ensured that recent code changes preserved existing functionalities; reducing the amount of post-release bugs by nearly 90%.
- Analyzed defects identified in production and improved white box testing strategies to prevent similar defects in the future, reducing the number of hotfix deployments.

LEARNING INSTITUTIONS

Holberton School Tulsa
Sep 2020 - Apr 2022

Full-Stack Software Engineering - Augmented and Virtual Reality Specialization

C, *Python*, *Javascript*, *C#*, *Bash*, *Unity*, MySQL, HTML, CSS, *Flask*, *Jinja*, jQuery, *Nginx*, *Vagrant*, *VirtualBox*, *pytest*, *doctest*

Central Michigan University
Aug 2008 - May 2010

General Studies

National Society of Collegiate Scholars - *Member*
Dean's List - *Fall 2008, Spring 2009, Fall 2009*
Leadership Safari - *2008 Participant*

ORGANIZATIONS

Oklahoma Women in Technology (OKWIT) - Leadership - 2023 *Spring Retreat Chair*
Builders + Backers - 2022 Summer Cohort **-** *Builder*
Techlahoma - Tulsa - *Member*

PUBLICATIONS

Geek Culture - The Startup - (*Medium*) **(2021 - *present*)**
Authors of Tomorrow - Elder & Leemaur **(2008)**