Ryan Cabell

Raleigh, NC, USA   cabell.ryan@gmail.com   919-381-8815   in/rkcabell   rkcabell.github.io/professional.html

SUMMARY

Software Developer with two years of experience developing and executing automated test cases for Wi-Fi drivers at BlackBerry QNX. Proven expertise working with cross-functional teams to deliver streamlined Wi-Fi driver test cases and test validation. Professional experience includes automated testing operations in POSIX environments, reducing manual processing time, and optimized Jenkins CI/CD pipelines for hardware test automation. Seeking opportunities to leverage expertise in test automation and continuous integration to drive efficient software testing solutions.

EXPERIENCE

Software Developer in Test | Blackberry QNX | Cary, NC | June 2022 – March 2024

- Engineered Python automation scripts alongside shell scripts to gather Wi-Fi sniffer traces using tshark and tcpdump, systematizing key data extraction for precise test case validation.
- Crafted robust automation scripts on POSIX environments to streamline testing operations, reducing manual intervention by 40%.
- Streamlined deployment processes on diverse architectures by automating QNX OS image installation.
- Conducted comprehensive unit, integration, and reliability testing on various hardware setups, facilitating successful QNX SDP 8.0 product release.
- Designed and executed comprehensive QMS test plans, integrating feedback from cross-functional teams utilizing Jira and Confluence.
- Optimized Jenkins CI/CD pipelines using Groovy scripts to enhance automation of board image deployment in hardware tests.

CS Lab Assistant | UNCG Greensboro | Greensboro, NC | January 2020 – May 2020

- Facilitated understanding of computer science principles through group tutoring sessions, enhancing student performance by 15%.
- Implemented a standardized grading framework, facilitating accurate feedback for over 100 student projects.
- Created comprehensive curriculum reports leveraging Microsoft 365 analytics tools.

PROJECTS

Shelvz Android App | January 2025

- Developed an Android application for book browsing and reading using Jetpack Compose.
- Composed with Kotlin and modern Jetpack Compose features to enhance user interface effectiveness.
- Integrated Hilt for seamless dependency injection, optimizing app efficiency utilizing MVVM Architecture.

Personal Website | April 2024

- Crafted a responsive personal website using HTML, CSS, and JavaScript, enhancing design with optimized user experiences.
- Implemented advanced CSS and JavaScript techniques to optimize visual accessibility and aesthetics, improving site-wide navigability.
- Leveraged scalable content management using GitHub Pages and Jekyll for seamless deployment, enabling rapid delivery of site updates.
- Developed custom interactive features using JavaScript to enhance website functionality, boosting visitor engagement.
- Applied modern CSS techniques to achieve cross-platform compatibility, verified through performance testing across multiple platforms.

Better Health – Senior Capstone project | December 2021

- Managed a four-member team to create a website leveraging Flask and MongoDB for monitoring nutritional intake and healthy recipes.
- Implemented MongoDB schema to optimize encrypted storage of user profiles, allowing for secure data storage.
- Enhanced security framework of application by leveraging Flask's web session functionalities.

EDUCATION

B.S. of Computer Science | University of North Carolina at Greensboro | Minor in Mathematics | Greensboro, NC | 2021

Associates of Science | Wake Technical Community College | Raleigh, NC | 2019

SKILLS

Test Reports * Regression Testing * ISO 9001 Compliance * Wireless Networks / 802.11 * Linux / Ubuntu * Software Testing * Continuous Integration (CI) * Performance Testing * JIRA Defect Management * TCP/IP * VMWare * Technical Documentation * Wireshark / tshark * SVN * Git * Routers / Switches * Software Quality Assurance * Usability Testing * Constructive Feedback * Technical Requirements * Problem Solving * Wi-Fi Certification * Software Development Lifecycle (SDLC) * Continuous Deployment (CD) * Jenkins Server Automation * Version Control * SQL * NoSQL * Confluence * Windows OS * HTML * Python * CSS * Team Communication * Microsoft 365 * Code Reviews * Test Automation