

# RYAN CABELL

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## EXPERIENCE

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### Blackberry QNX

*Software Developer in Test*

Cary, NC

Jun 2022 - Mar 2024

- Authored automated testing scripts using PyTest to evaluate and validate the capabilities of WiFi chips
- Developed and maintained scripts in Bash and Python on POSIX systems to automate processes and reduce downtime by 4 hours a week
- Led WFA Precertification testing across 11 different testbeds, including FlexTrack and QuickTrack, to ensure product compliance and performance
- Oversaw and maintained QNX OS microkernel image deployment on aarch and ARM architectures and on diverse SDP and BSP combinations through continuous integration & continuous development (CI/CD)
- Completed rigorous testing on a variety of hardware setups to pass QNX SDP 8.0 through testing cycles to product release
- Collaborated in the creation of Quality Management System (QMS) test plans test plans and test specifications, and managed comprehensive documentation on Confluence

### UNCG

*CS Lab Assistant*

Greensboro, NC

Jan 2020 - May 2020

- Tutored students on the fundamentals of computer science
- Developed a fair grading rubric with consistent approach to assignments and project work

### Autobell Car Wash

*Team Leader*

Raleigh, NC

Oct 2016 - Jul 2019

## EDUCATION

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### University of North Carolina - Greensboro

BS of Computer Science, minor in Mathematics

GPA: 3.55

Greensboro, NC

Aug 2019 - Dec 2021

### Wake Technical Community College

Associates of Science

Raleigh, NC

Aug 2017 - Jun 2019

## PROJECTS

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### Better Health — Senior Capstone project

Dec 2021

Technologies used: **Python**, Flask, NoSQL, MongoDB, passlib, APIs

- Spearheaded a team of four in developing a website aimed at empowering users to track and manage their nutritional intake, hydration, and explore healthy recipes
- Designed a robust database using **MongoDB** to store user profiles and settings safely with encrypted, salted, and hashed passwords.
- Engineered a seamless user authentication system utilizing Flask's web session and cookies packages

### Craigslist web scraper - Personal project

Dec 2020

Technologies used: **Java**, JSoup, CSS, FXML

- Engineered a Java-based web scraping tool that navigates Craigslist ad pages, extracting pertinent information and organizing it for easy access and analysis.
- Integrated Jsoup library to parse and extract data from Craigslist pages
- Adhered to ethical web scraping practices by complying with guidelines specified in /robots.txt, demonstrating a commitment to responsible and respectful software development.

## SKILLS

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Languages:	Python, Java, C#, C, Bash
Technologies:	Git, SVN, PyTest, Jenkins, WFA Precert, QNX, Linux/Ubuntu, Windows, Networks, LaTeX
Tools:	VS Code, BlackFishDB, Wireshark, Powershell, PuTTY, Meld, Jira, Confluence, Rufus
Soft Skills:	Leadership, Teamwork, Documentation, Problem-Solving, Curiosity