

Ryan Cabell

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• [LinkedIn](#) • [Github](#) • [Website](#) •

Experience

Software Developer in Test • *Blackberry QNX Cary, NC* Jun 2022 - Mar 2024

- Developed automated testing scripts using PyTest to evaluate WiFi chips
- Created and maintained Bash and Python scripts on POSIX systems to automate processes
- Managed QNX OS microkernel image deployment on aarch and ARM architectures through continuous integration & continuous development (CI/CD)
- Performed unit testing, integration, and reliability testing on various hardware setups for QNX SDP 8.0 product release
- Collaborated on Quality Management System (QMS) test plans and managed documentation

CS Lab Assistant • *UNCG Greensboro, NC* Spring 2020

- Tutored students in computer science fundamentals
- Developed a consistent grading rubric for assignments and projects

Education

University of North Carolina at Greensboro • *Greensboro, NC*

B.S. of Computer Science, Minor in Mathematics • 2021

Wake Technical Community College • *Raleigh, NC*

Associates of Science • 2019

Projects

Personal Website Apr 2024

Technologies used: HTML, CSS, JavaScript

- Combined CSS, JavaScript, and color theory to create an engaging user interface
- Built with the Jekyll static site generator to organize content and simplify site deployment
- Implemented interactive features and links to previous projects
- Optimized functionality for Desktop and mobile viewing

Halvorsen Attractor Simulation Aug 2024

Technologies used: JavaScript, p5js

- Visualized the Halvorsen attractor dynamical system
- Features three draw modes and variable settings

Better Health — Senior Capstone project Dec 2021

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

- Led a team of four to develop a website for tracking nutritional intake and healthy recipes.
- Designed a MongoDB database for secure user profile storage with encrypted passwords
- Implemented user authentication using Flask's web session and cookies packages.

Skills

Programming Languages: Python, Java, C, Bash

Technologies: Git, SVN, PyTest, Jenkins, WFA Precert, QNX, Linux/Ubuntu, Windows

Tools: VS Code, BlackFishDB, Wireshark, Powershell, PuTTY, Meld, Jira, Confluence, Rufus

Soft Skills: Leadership, Teamwork, Documentation, Problem-Solving, Curiosity