DWAYNE CHRISTIAN BROWN, JR. ("CHRIS")

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EDUCATION

North Carolina State University   2015 - *present*
Ph.D. in Computer Science, Advisor: Chris Parnin
M.S. in Computer Science (completed 2017)

Duke University   2009 - 2013
B.S. in Computer Science, with Distinction

TECHNICAL SKILLS

Red Hat Certified System Administrator (RHEL 7)
Programming languages: Python, Java, R, Ruby, C#, C++, C, HTML, JavaScript, SQL
Tools and Technologies: Git, Ansible, Jenkins, Docker, TravisCI, Maven, Linux, Windows, LaTex, Android

EXPERIENCE

Research:

Research Assistant *North Carolina State University* Raleigh, NC   Fall 2016 - *present*
· Developed and evaluated an Eclipse plugin in Java to improve code navigation in the IDE called *Flower*
· Conducted a user study to determine effective characteristics of peer interactions for tool recommendations
· Developed and evaluated *tool-recommender-bot* to generate pull requests recommending tools to Maven projects
· Mined GitHub repos, surveyed users, and designed a user study to explore the impact of GitHub suggested changes
· Published and presented research at various peer-reviewed research and industry conferences and workshops
Independent Study *North Carolina State University* Raleigh, NC   Fall 2016
· Designed an algorithm using automated program repair concepts to grade introductory programming assignments
Undergraduate Research Fellow *Duke University* Durham, NC   May 2012 - May 2013
· Researched integrating computer science into middle school education with Alice
· Mapped Common Core K-12 standards to CSTA computer science education standards
· Created tutorials for students and teachers to create Alice worlds based on educational concepts
· Wrote thesis *"Integrating Computer Science Into Middle School Mathematics"* and published works at conferences
CRA DREU Researcher *Brown University* Providence, RI/Moss Beach, CA   Summer 2011
· Investigated applications for integrating robotics into society using ROS and Python with iRobot Create robots

Industry:

Quality Engineering Intern *Red Hat* Raleigh, NC   Summer 2017, 2018
· Verified bugs and automated tests with Python for the robottelo test suite for Red Hat Satellite 6
· Explored Federal Information Processing Standards (FIPS) compatibility for Satellite 6 (2018)
· Created Ansible roles to automatically test and install Red Hat Satellite (2018)
· Implemented satellite-populate modules to configure and run robottelo tests with Docker using YAML files (2017)
Software Quality Engineer Intern *Blackbaud* Charleston, SC   Summer 2016
· Fixed C# bugs and verified test cases for Online Express and Sky Email
· Improved Givalanche API Documentation with Swagger and the Blackbaud Stache framework
· Constructed a dashboard to monitor the status of Online Express using AppDynamics
Python Developer *Bank of America* Charlotte, NC   2013 - 2015
· Developed, maintained, and tested Python code for the internal Manual Adjustment Tool

Teaching:

Teaching and Communication Certificate *North Carolina State University*   2019 - *present*
Enrolled in graduate certificate program requiring 100 hours of approved workshops and activities
Python Tutor *The Coding School*   Summer 2019
Taught Python to a high school student through the codeConnects program teaching coding to minorities in STEM
Teaching Assistant *North Carolina State University*   2015 - 2016
Graded assignments, taught labs, held office hours, and managed Jenkins projects for undergraduate courses in Java

EXTRACURRICULARS, SERVICE, AND AWARDS

Hackathons: HackDuke 2019 (Volunteer), Hacktoberfest 2019, PackHacks 2018, Open Jam 2017, Duke Men's Basketball Hackathon, HackNC 2016, HackDuke 2016, Off the Grid 2016 (Blackbaud)
Organizations: ACM, IEEE, Python Software Foundation, Linux Foundation, Minority Engineering Graduate Student Association (MEGSA), Free Open Source Software Interest Group (FOSS), Red Hat Blacks United in Leadership and Diversity (BUILD)

NC State CSC PhD Recruitment Event Coordinator   Spring 2020
All Things Open Volunteer   October 2016, 2017, 2018, 2019
INTech Code Camp Volunteer   April 27, 2019
DevConf.US Diversity Scholarship   June 2019
SIGSOFT CAPS NSF Travel Award ICSE 2019   March 2019