DWAYNE "CHRIS" BROWN, JR.

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EDUCATION

North Carolina State University   *2015 - present*
Ph.D. in Computer Science

North Carolina State University   *2015 - 2017*
M.S. in Computer Science

Duke University   *2009 - 2013*
B.S. in Computer Science
Minor in African and African American Studies
Graduation with Distinction

INDUSTRY

Red Hat   June - August 2018
Quality Engineering Intern   *Raleigh, NC*

· Examined Federal Information Processing Standards (FIPS) compatibility and created Ansible roles to testing and installing Red Hat Satellite

Red Hat   June - August 2017
Quality Engineering Intern   *Raleigh, NC*

· Verified reported bugs, wrote automation tests, and helped test and maintain a new test automation framework satellite-populate for Red Hat Satellite 6

Blackbaud   May - August 2016
Software Engineering Intern   *Charleston, SC*

· Used AppDynamics to create a monitoring dashboard, added documentation for Givalanche, and wrote C# code to fix bugs in Online Express

Bank of America   July 2013 - July 2015
Python Developer   *Charlotte, NC*

· Wrote Python code to develop and maintain the Manual Adjustment Tool application

RESEARCH

Research Assistant   August 2017 - present
North Carolina State University   *Raleigh, NC*

· Developing a bot to increase tool awareness and usage among developers with Dr. Emerson Murphy-Hill and Dr. Chris Parnin

Research Assistant   August 2016 - May 2017
North Carolina State University   *Raleigh, NC*

· Conducted user study analyzing recommendations between peers with Dr. Emerson Murphy-Hill

Independent Study   August 2016 - December 2016
North Carolina State University   *Raleigh, NC*

· Studied integrating automated program repair into computer science education with Dr. Guoliang Jin

Computer Science Undergraduate Research Fellow　　　May 2012 - May 2013
Duke University　　　*Durham, NC*

· Studied integrating computer science concepts into K-12 education with Dr. Susan Rodger

Distributed Research Experience for Undergraduates　　　May - August 2011
Brown University　　　*Providence, RI - Moss Beach, CA*

· Researched applications for robotics in society with Dr. Chad Jenkins for the Computing Research Association DREU program

TEACHING

Java Tutor　　　August - December 2017
NC State CSC116: Introduction to Programming Java　　　*Raleigh, NC*

· Tutored students in the Introduction to Computing Java course through NC State Students and Technology in Academia, Research and Service (STARS)

Java Tutor　　　August - December 2016
AP Computer Science　　　*Raleigh, NC*

· Tutored a local high school student enrolled in AP Computer Science

Teaching Assistant　　　January - May 2016
NC State CSC216: Java Programming Concepts　　　*Raleigh, NC*

· Graded programming assignments and exams, held office hours for students at N.C. State

Teaching Assistant　　　August - December 2015
NC State CSC326: Software Engineering　　　*Raleigh, NC*

· Graded assignments and exams, held office hours, and taught lab sections at N.C. State

C Tutor　　　January - May 2015
Central Piedmont Community College　　　*Charlotte, NC*

· Tutored a student taking an introductory C programming class at CPCC

Alice Activity Day　　　March 23, 2013
Duke CSURF　　　*Durham, NC*

· Taught Alice programming to local 6th grade students in two 3-hour sessions for resaerch study

Creating a 3D Interactive Story　　　February 22, 2013
Duke FEMMES　　　*Durham, NC*

· Taught Alice programming to4th-6th grade girls for Females Excelling More in Math, Engineering, and Science event

Adventures in Alice　　　November 30, 2012
Oak Grove Middle School　　　*Winston-Salem, NC*

· Taught Alice programming to three 6th grade math and science classes

PUBLICATIONS

How Software Users Recommend Tools to Each Other　　　VL/HCC 2017
Visual Languages and Human-Centric Computing Conference　　　*Raleigh, NC*

· Chris Brown, Emerson Murphy-Hill, Justin Middleton, Esha Sharma

Flower: Navigating Program Flow in the IDE
Visual Languages and Human-Centric Computing Conference

VL/HCC 2017
Raleigh, NC

· Justin Smith, Chris Brown, Emerson Murphy-Hill

Weaving Computing into all Middle School Disciplines
Innovation and Technology in Computer Science Education Conference

ITiCSE 2014
Uppsala, Sweden

· Susan H. Rodger, Dwayne Brown, Michael Hoyle, Daniel MacDonald, Michael Marion, Elizabeth Onstwedder, Bella Onwumbiko, and Edwin Ward

PRESENTATIONS

Red Hat QECampX
"How to Improve Software Tool Discovery and Usage"

October 10, 2018
Raleigh, NC

· Talk presented at the Red Hat QECampX quality engineering conference

Laboratory for Analytic Sciences
Wednesday Research Meeting

November 29, 2017
Raleigh, NC

· Presented at the Laboratory for Analytic Sciences weekly research meeting

VL/HCC 2017
"How Software Users Recommend Tools to Each Other"

October 12, 2017
Raleigh, NC

· Conference presentation for published research paper

PhD Written Qualifying Exam
"Receptive Users and Time-Insensitive Recommendations Improve Tool Discovery"

February 2, 2017
Raleigh, NC

· Passed the department PhD qualifying exam and presentation

SIGCSE 2013
"Experimenting with and Integrating Alice 2.3 into many disciplines"

March 8, 2013
Denver, CO

· Conference workshop presentation and demo

SIGCSE 2013
"Integrating computer science into middle school mathematics"

March 6-9, 2013
Denver, CO

· Conference poster presented at the ACM Special Interest Group on Computer Science Education

TECHNICAL SKILLS

Red Hat Enterprise Linux 7 Certified System Administrator
NC State Linux Users Group
Python Software Foundation
Linux Foundation
ACM and IEEE student member

Programming Languages	Python, Java, C/C++/C#, Ruby, JavaScript, Bash, HTML, SQL
Tools and Technologies	Git, Ansible, Jenkins, Linux, Windows, LaTeX, Android