

DWAYNE “CHRIS” BROWN, JR.

@ dcbrow10@ncsu.com 📍 Raleigh, NC 🐙 chbrown13.github.io in linkedin.com/in/chris-brown-04840654 📧 chbrown13

EDUCATION

- | | |
|---|-----------------------|
| North Carolina State University
Ph.D. in Computer Science
Advisor: Chris Parnin | <i>2015 - present</i> |
| North Carolina State University
M.S. in Computer Science | <i>2015 - 2017</i> |
| Duke University
B.S. in Computer Science, with Distinction
Minor in African and African American Studies | <i>2009 - 2013</i> |

INDUSTRY

- | | |
|---|--------------------------------------|
| Red Hat
<i>Quality Engineering Intern</i> | Summer 2018
<i>Raleigh, NC</i> |
| · Examined Federal Information Processing Standards (FIPS) compatibility and created Ansible roles to testing and installing Red Hat Satellite | |
| Red Hat
<i>Quality Engineering Intern</i> | Summer 2017
<i>Raleigh, NC</i> |
| · Verified reported bugs, wrote automation tests, and helped test and maintain a new test automation framework satellite-populate for Red Hat Satellite 6 | |
| Blackbaud
<i>Software Quality Engineer Intern</i> | Summer 2016
<i>Charleston, SC</i> |
| · Used AppDynamics to create a monitoring dashboard, added documentation for Givalanche, and wrote C# code to fix bugs in Online Express | |
| Bank of America
<i>Python Developer</i> | 2013 - 2015
<i>Charlotte, NC</i> |
| · Wrote Python code to develop and maintain the Manual Adjustment Tool application | |

RESEARCH

- | | |
|---|---|
| Research Assistant
<i>North Carolina State University</i> | Fall 2018 - present
<i>Raleigh, NC</i> |
| · Integrating nudge theory in software engineering to encourage developer actions with Dr. Chris Parnin | |
| Research Assistant
<i>North Carolina State University</i> | Fall 2017 - Spring 2018
<i>Raleigh, NC</i> |
| · Developing a bot to increase tool awareness and usage among developers with Dr. Emerson Murphy-Hill | |
| Research Assistant
<i>North Carolina State University</i> | Fall 2016 - Spring 2017
<i>Raleigh, NC</i> |
| · Conducted user study analyzing recommendations between peers with Dr. Emerson Murphy-Hill | |

Independent Study

North Carolina State University

Fall 2016

Raleigh, NC

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

Computer Science Undergraduate Research Fellow

Duke University

Summer 2012 - Spring 2013

Durham, NC

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

Distributed Research Experience for Undergraduates (DREU)

Brown University

Summer 2011

Providence, RI - Moss Beach, CA

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

PUBLICATIONS

Conference Papers

Mining Specifications from Documentation Using a Crowd

Peng Sun, *Chris Brown*, Ivan Beschastnikh, and Kathryn Stolee

SANER 2019

Hangzhou, China

- International Conference on Software Analysis, Evolution and Reengineering

How Software Users Recommend Tools to Each Other

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

VL/HCC 2017

Raleigh, NC

- Visual Languages and Human-Centric Computing

Flower: Navigating Program Flow in the IDE

Justin Smith, *Chris Brown*, Emerson Murphy-Hill

VL/HCC 2017

Raleigh, NC

- Visual Languages and Human-Centric Computing

Weaving Computing into all Middle School Disciplines

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

ITiCSE 2014

Uppsala, Sweden

- Innovation and Technology in Computer Science Education

Workshops

Sorry to Bother You: Designing Bots for Effective Recommendations

Chris Brown, Chris Parnin

ICSE 2019

Montreal, QC, Canada

- International Conference for Software Engineering (paper)

Experimenting with and Integrating Alice 2.3 into many disciplines

Susan H. Rodger, Steve Cooper, Wanda Dann, *Dwayne C. Brown, Jr.*, Jacobo Carrasquel

SIGCSE 2013

Denver, CO

- ACM Special Interest Group on Computer Science Education (presentation and demo)

Doctoral Symposium

Digital Nudges for Encouraging Developer Actions

Chris Brown, Chris Parnin

BotSE 2019

Montreal, QC, Canada

- International Workshop on Bots in Software Engineering

Posters

Integrating Computer Science into Middle School Mathematics

Susan H. Rodger, Dwayne C. Brown, Jr., Michael Hoyle, Michael Marion

SIGCSE 2013

Denver, CO

- ACM Special Interest Group on Computer Science Education

TEACHING

Python Instructor

The Coding School

June - August 2019

Virtual

- Tutored a high school student through the codeConnects teaching and mentorship summer program.

Java Tutor

NC State CSC116: Introduction to Programming Java

August - December 2017

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

AP Computer Science

August - December 2016

Raleigh, NC

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

Teaching Assistant

NC State CSC216: Java Programming Concepts

January - May 2016

Raleigh, NC

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

Teaching Assistant

NC State CSC326: Software Engineering

August - December 2015

Raleigh, NC

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

C Tutor

Central Piedmont Community College

January - May 2015

Charlotte, NC

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

Alice Activity Day

Duke CSURF

March 23, 2013

Durham, NC

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

Creating a 3D Interactive Story

Duke FEMMES

February 22, 2013

Durham, NC

- Taught Alice programming to 4th-6th grade girls for Females Excelling More in Math, Engineering, and Science event

Adventures in Alice

Oak Grove Middle School

November 30, 2012

Winston-Salem, NC

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

SERVICE

NC State CSC PhD Recruitment Weekend

Volunteer

March 1-2, 2019

Raleigh, NC

- Volunteered for the computer science department PhD Recruitment Weekend for potential doctoral students

Bridge to the Doctorate Program

Graduate Student Panel

February 15, 2019

Raleigh, NC

- Participated on a graduate student panel answering questions for NC Louis Stokes Alliance for Minority Participation (NC-LSAMP) students on what it's like to be a PhD student at NC State

All Things Open

Volunteer

October 21-23, 2018

Raleigh, NC

- Volunteered at the All Things Open open source conference

NC-LSAMP Undergraduate Research Conference

Student Networking Volunteer

November 11, 2017

Raleigh, NC

- Hosted a table during the networking session at the North Carolina Louis Stokes Alliance for Minority Participation Undergraduate Research Conference to speak to students and answer questions about graduate school

All Things Open

Volunteer

October 23-24, 2017

Raleigh, NC

- Volunteered at the All Things Open open source conference

Visual Languages and Human-Centric Computing

Student Volunteer

October 11-13, 2017

Raleigh, NC

- Volunteer for the VL/HCC 2017 conference hosted in Raleigh, NC

Blocks and Beyond 2017

Student Volunteer

October 10, 2017

Raleigh, NC

- Volunteer for the Blocks and Beyond workshop in Raleigh, NC

Open Source 101

Volunteer

February 4, 2017

Raleigh, NC

- Volunteered at the Open Source 101 open source conference

All Things Open

Volunteer

October 26-27, 2016

Raleigh, NC

- Volunteered at the All Things Open open source conference

Big Brothers Big Sisters

Big Brother

October 2014 - July 2015

Charlotte, NC

- Volunteered as a mentor for Big Brothers Big Sisters of Greater Charlotte

PRESENTATIONS

DevConf.US

"Sorry to Bother You! Effective OSS Recommendations"

August 15-17, 2019

Boston, MA

- Accepted talk presented at DevConf.US 2019 OSS developer community and technology conference

Free Open Source Software Interest Group

Lightning Talk

January 25, 2019

Raleigh, NC

- Presented my research as a lightning talk for the FOSS Interest Group meeting at NC State

Red Hat QECampX October 10, 2018
"How to Improve Software Tool Discovery and Usage" *Raleigh, NC*

- Accepted talk presented at the Red Hat QECampX quality engineering conference

Linux User's Group @ NC State February 28, 2018
Lightning Talk *Raleigh, NC*

- Presented my research as a lightning talk for the Linux User's Group

Intern Expo August 2017, 2018
Red Hat *Raleigh, NC*

- Showcase and demo internship projects to Red Hat employees

Laboratory for Analytic Sciences November 29, 2017
Wednesday Research Meeting *Raleigh, NC*

- Invited talk to present my research at the Laboratory for Analytic Sciences' weekly research meeting

Intern Showcase August 2016
Blackbaud *Raleigh, NC*

- Present the work completed during my internship to Blackbaud interns and employees

OTHER CONFERENCES

Computing Research Association URMD Grad Cohort Workshop March 21-23, 2019
Computing Research Association *Waikoloa Village, HI*

- Attended the CRA Underrepresented Minorities & Persons with Disabilities Graduate Cohort Workshop

Foundations of Software Engineering (FSE/ESEC 2018) November 5-9, 2018
ACM *Orlando, FL*

- Attended FSE 2018

National Society of Blacks in Computing (NSBC 2018) August 9-11, 2018
Institute for African-American Mentoring in Computing Sciences *New Orleans, LA*

- Participated in the NSBC 2018 conference

Open Source 101 February 17, 2018
All Things Open *Raleigh, NC*

- Attended conference presenting introductory concepts and for open source software

National Society of Blacks in Computing (NSBC 2018) August 9-11, 2017
Institute for African-American Mentoring in Computing Sciences *Atlanta, GA*

- Participated in the NSBC 2017 conference

Foundations of Software Engineering (FSE/ESEC 2016) November 14-18, 2016
Association for Computing Machinery *Seattle, WA*

- Attended FSE 2016

HONORS AND AWARDS

NSF Travel Award*National Science Foundation*

March 27, 2019

Montreal, QC, Canada

- Received travel support to attend ICSE 2019

Graduate Merit Award*North Carolina State University*

August 2015

Raleigh, NC

- Received a graduate merit award for the CSC department at NC State

Goldman Sachs Research Scholar*Goldman Sachs*

Summer 2012

Durham, NC

- Undergraduate summer research funded by Goldman Sachs

LeaderShape*Duke University*

Summer 2012

Sophia, NC

- Accepted to attend the Duke University LeaderShape leadership retreat

Computer Science Undergraduate Research Fellowship*Duke University*

May 2012 - May 2013

Durham, NC

- Accepted into the Duke CSURF program to conduct undergraduate research with Dr. Susan Rodger

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