**Brandon Davis**

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**Education\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ \_\_**

**University of North Carolina at Chapel Hill** May 2017

* Bachelor of Science in Computer Science, Minor in Mathematics

**Leadership Experience**

* UNC Computer Science Club Co-President 2016 – 2017
* HackNC Director of Development – build website and registration system 2016 – 2017

**Relevant Coursework**

* Software Design (Java), Files and Databases, Advanced Web Development, Algorithms and Analysis, Computer Graphics, Digital Logic (Architecture), Operating Systems, Offensive Security
* Calculus 1 – 3, Discrete Mathematics, Linear Algebra

**Work Experience \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_**

**Capital One** (McLean, VA) July 2017 – Present

*Associate Software Engineer*

* Member of a team building the next generation of banking infrastructure to leverage AWS.
* Help design real-time messaging infrastructure deployment with Apache Kafka.

**Cisco Systems, Inc** (RTP, NC) May – August 2016

*Software Engineer, Intern*

* Developed internal python API to enable my team to communicate with Cisco’s bug tracking system
* Designed python scripts to catalog and generate checksums for ~100TB of cisco firmware for customers
* Built command-line utility to maintain metadata caches, enabling faster lookup times for our applications
* Designed BASH backup scripts for my team’s production database, ensuring recoverability of our data

**SQL Sentry, LLC** (Charlotte, NC) June 2015 – March 2016

*QA Specialist, Intern*

* Created robust test suite in Ranorex for automating nightly production web application testing, enabling faster detection of problems in our web services. Included daily email reports to project team members.
* Developed internal tools in C# to extend MS Team Foundation Server task management, particularly to catalog new test cases and include them in future regression tests.

**UNC Information Technology Services** (Chapel Hill, NC) November 2014 – May 2015

*Walk-in Technician*

* Diagnosed and repaired software issues, and recovered and backed up client data
* Communicated 1:1 with students and faculty to troubleshoot technology and resolve client issues

**Projects\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_**

**HackNC 2016 Website + Registration** (Python/Flask/HTML/JavaScript/PostgreSQL) June – October 2016

* Lead a team to design and build hacknc.com – the largest advertising medium for the event
* Designed an accompanying registration system from scratch to process roughly 1500 applications
* Deployed and maintained day-of systems like the mentor connection queue and judging system

**OpenCV BitCamp Hackathon Project** (C++/Python) March 2016

* Two-member team project for BitCamp at UMD created in 36 hours
* Built a physical “joystick” to be tracked by a single web-cam out of miscellaneous art supplies
* Learned computer vision (OpenCV) to construct a 3D orientation matrix from 2D points (pose transform)

**Reddit Accessible** (JavaScript/CSS/Node/MongoDB) March – May 2017

* Chrome extension to rearrange the reddit.com interface to be more intuitive and readable
* Added event-driven model to allow switch users with two buttons to autonomously navigate all content
* Includes Node.js back-end to proxy external content safely into a single switch-accessible page

**Skills \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Languages** Python, JavaScript, Go, HTML/CSS, C/C++, Java/C#, SQL, BASH

**Other Technologies** Linux + GNU tools, Git, SQL Server/MySQL/PostgreSQL, MongoDB, Ranorex