**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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_**

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

*Software Engineer, Intern*

* Developed internal python API to enable my team to communicate with Cisco’s bug tracking system
* Extended team’s Django app with new endpoints and added authentication / Swagger documentation
* Designed python scripts to catalog and generate checksums for ~100TB of cisco firmware for customers
* Built command-line utility to maintain bug data 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 on OS X and Windows
* Recovered and backed up client data using department's custom scripts or advanced Linux tools
* 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 ~1500 applications
* Created clean logistical dashboard with information for event attendees
* 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)
* Used this model as input for an OpenGL flight simulator game created by my teammate

**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 back-end to parse and serve external articles so that every kind of content can be served into a single switch-accessible page

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

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

**Other Technologies** (Debian-based) Linux, Git, SQL Server/MySQL/PostgreSQL, MongoDB, Ranorex