

# Brandon Davis

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## Education

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### 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

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### 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

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### 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

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**Languages** (Python) | (Java(Script)?) | (Go) | (HTML) | C(S{2}|\+{2}|#)? | (T?SQL) | (BA)?SH

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