

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 – built 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 and ECS.
- Build and maintain automated CI/CD pipelines for goLang applications using Docker and Jenkins.

Cisco Systems, Inc (Cary, NC)

May – August 2016

Software Engineer, Intern

- Developed internal python API to enable my team to communicate with Cisco's bug tracking system.
- Created python app to catalog and generate checksums for ~100TB of router firmware for consumers.
- 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

KeePass Tusk (Vue.js/SASS/Webpack/WebExtensions API)

March 2017 – Present

- Designed UI in Vue.js to provide better KeePass experience for average and non-technical users.
- Discovered vulnerabilities with existing community projects affecting ~80K users and published findings, resulting in a fix of one extension and community abandonment of another.
- Interact with community of 3.6K users through issue tracker to debug problems and add new features.

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

Skills

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

Other Technologies Linux, Git, Docker, AWS, Terraform, Jenkins, SQL (Postgres/MSSQL), Webpack, MongoDB