**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**

**Kitware Inc.** (Ballston, VA) August 2018 – Present

*Research & Development Engineer – Data & Analytics*

* Develop capabilities for multiple projects with Vue.js, AWS serverless infrastructure, and Python
* Maintain library of video annotation tools for visualizing subject detection and temporal meta-data
* Contribute to Girder front-end component library enabling Girder data integration in 3rd party clients

demo: [github.com/girder/girder\_web\_components](http://github.com/girder/girder_web_components)

**Capital One** (McLean, VA) July 2017 – August 2018

*Associate Software Engineer*

* Designed real-time messaging infrastructure deployment for production with Apache Kafka/ECS
* Built and maintained automated CI/CD pipelines for golang applications using Docker and Jenkins

**Cisco Systems, Inc** (Cary, NC) May 2016 – 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

**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 12K 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