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

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