Brandon Davis

1229 Dula Road, Spruce Pine, NC 28777
bdavis@redspin.net **|** (321) 506-5510 **|** github.com/subdavis **|** redspin.net

Education

University of North Carolina at Chapel Hill   Expected May 2017
- Bachelor of Science in Computer Science, GPA 3.36

Relevant Coursework
- Computer Organization and Design, Software Design (Java), Files and Databases, Advanced Web, Algorithms and Analysis, Computer Graphics, Digital Logic
- Calculus 1 – 3, Discrete Mathematics, Linear Algebra

Leadership Experience
- UNC Computer Science Club Co-President   2016-2017
- HackNC Development Team Leader   2016-2017

Work Experience

SQL Sentry, LLC (Charlotte, NC)   June 2015 – March 2016
QA Specialist, Intern
- Created robust test suite in Ranorex for automating production web application testing
- Worked as part of an agile team testing desktop and web software
- Developed internal tools for assisting with TFS task management
- Identified and reported bugs to development branch

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
- Communicated one-on-one with students and faculty to troubleshoot technology

Mitchell High School IT Department (Ledger, NC)   June 2011 – May 2013
IT Assistant
- Imaged and diagnosed computer problems on Apple MacBooks for 450 students and faculty
- Greeted clients and gave preliminary assessment of their issues
- Managed the IT help desk when my supervisor was away or unavailable
- Assisted with MySQL DB management manually and with my own custom written PHP scripts

Personal Projects

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 of the joystick
- Used this model as input for an OpenGL flight simulator game created by my teammate

Spotify Predictive Playlists (Python/MySQL/Flask/HTML/JavaScript)   October 2015 – December 2016
- Wrote a web crawler and used Spotify API to fetch data and populate ~300,000 song/playlist records
- Designed a database schema to hold these records, and used proper indexing to optimize my queries
- Desgined SQL queries for analyzing trends and predicting new content based on user preferences
- Implemented a REST API using Python/Flask and a web front end for interacting with the data.

HackNC Mobile Application (HTML/CSS/JavaScript/Python/Flask)   August 2015 – October 2015
- Helped develop the first mobile event application for UNC's fall hackathon.
- Wrote dynamic schedule for updating and adding events ad-hoc
- Helped create a system to link students with mentors, handling concurrency and backend services

Skills

Languages   Python, C#, C++, Java, T-SQL / SQL, JavaScript, BASH, HTML/CSS
Other Technologies Apache2, MongoDB, MS SQL Server/MySQL, Ranorex, Debian Linux user for 4+ years