

# Brandon Davis

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## Education

### University of North Carolina at Chapel Hill

Expected May 2017

- Bachelor of Science in Computer Science, GPA 3.3

## Relevant Coursework

- Computer Organization and Design, Software Design (Java), Files and Databases, Advanced Web
- Calculus 1 – 3, Discrete Mathematics, Linear Algebra

## Work Experience

### SQL Sentry, LLC (Charlotte, NC)

June 2015 – Present

#### QA Specialist, Intern

- Created robust test suite in Ranorex for automating production web application testing
- Work as part of an agile team testing desktop and web software
- Develop internal tools for assisting with SCRUM task management
- Identify and report 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

### HackNC Mobile Application (HTML/CSS/JavaScript/Python/Flask)

August 2015

- Help develop the first native mobile event application for UNC's fall hackathon
- Wrote dynamic schedule for updating and adding events ad-hoc
- Help create a system to link students with mentors, handling concurrency and backend services

### Conway's Game of Life (JavaScript/HTML)

October 2015 – November 2015

- Implemented my own optimized algorithm for CGoL in JavaScript from scratch
- Created a versatile display library on top of JS canvas for outputting game state
- Maintain the project and codebase at redspin.net/life

### Spotify Predictive Playlists (Python/MySQL/Flask/JavaScript/HTML/CSS)

October 2015 - Present

- 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
- Designed SQL queries for suggesting new playlists and songs based on user's current selections
- Implemented a REST API using Python/Flask and a web frontend for interacting with the data.

## Skills

### Languages

**Proficient** – Java, Python, C#, T-SQL / SQL, JavaScript

**Familiar** – PHP, HTML/CSS, BASH

### Other Technologies

**Operating Systems** – Windows (7/8/10) OS X (Snow Leopard - Yosemite) Linux (any Debian based)

**Miscellaneous** – Apache2, MongoDB, SQL Server, SSMS, Hyper-V, Ranorex