

Education

University of North Carolina at Chapel Hill

May 2016

B.S. Computer Science

3.77 GPA, Dean's List

Relevant Coursework: Introduction to Statistics, Linear Algebra, Probability

Relevant Experience

Premier, Inc. - *Software Developer Intern*

Summer 2015

- Created a user lookup tool using Facebook's **React.js** **JavaScript** library.
- Used **Ruby on Rails** implemented with **JRuby** to process search requests and pass them to a **Java 8** library
- Used a **Java 8** library to asynchronously collect user data from various sources, including an IBM **LDAP** database.
- Used **Guava** features, including Optionals and Immutable Sets, to collect user data.
- Used a **distributed database, Riak**, to store and retrieve information.

Acme-McCrory Corporation - *Volunteer Sales Analyst*

Summer-Fall 2014

- Used third party modules in **Python** to automate the analysis of sales data in Excel to determine appropriate shipping information, changing the process from taking one hour to one second.

Class Projects

Advanced WWW Development - *Web Application*

Fall 2014

- Implemented a custom **ORM** and **REST**ful interface to a **MySQL** backend.
- Used **AJAX** to dynamically load and edit data using **REST**.
- Used text to speech to read the data in browser.

Foundations of Programming - *Alice-Like Project*

Fall 2013

- Created an Alice-like program with a **MVC** architecture in **Java**.
- Implemented a DSL with **recursive descent parsing** to control an **asynchronous animation** of actors.

Activities & Achievements

Chapel Hill Contemporary Music Ensemble, violist

2013-Present

Composed over 80 sheets of original music

2008-Present

National Honors Society

2012

High School Math Tutoring

2010-2011

- Volunteered to tutor students in all levels of math up to calculus.

North Carolina Governor's School Student

Summer 2010

- Participated in a highly selective six-week residential program in which 600 students from across the state study contemporary modes of thought in various academic disciplines with a heavy emphasis on critical thinking.

Skills

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- Languages: JavaScript, Ruby, JRuby, Java, Python, C, C++, HTML/CSS, SQL, PHP, Assembly
 - Tools: git, Eclipse, IntelliJ, XCode, Maven, Lombok, Guava,
 - Agile Development
 - Design Patterns: Model-view-controllers, command objects, delegation, strategy, builder
 - Unix/Linux, OS X, Windows
 - Intermediate proficiency in Japanese