

# Jon Merwine

## Curriculum Vitae

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### Interests

Mobile Development

- Android, iOS, Web Applications

Artificial Intelligence

- Using principles such as data mining, pattern recognition, and machine learning

### Education

Fall 2014 – Spring  
2016[Expected]

**M.S. Computer Science** *Lehigh University, Bethlehem, PA*

Advisor: Dr. Henry Korth

Focusing on research and development in the fields of mobile computing, data mining, and artificial intelligence

Fall 2010 – Spring  
2014

**B.S. Computer Science & Business** *Lehigh University, Bethlehem, PA*

Advisor: Dr. Henry Korth

GPA: 3.5 - Honors

### Research Experiences

Summer 2014

**AI Conversation Engagement** *Lehigh University, Bethlehem, PA*

- Advisor: Dr. Mooi Choo Chuah
- Creating a mobile application to guide participants with Autism in normal conversation
- Speech recognition, data mining, pattern recognition, artificial intelligence

Spring 2013 – Fall  
2013

**Gamification for Health** *Cigna, Bloomfield, CT*

- Advisor: Dr. Ronald Crane
- Developed a Gamification application for Cigna client use with the purpose of promoting “tiny” habits and healthier lives.
- Researched best practices for Gamification and applied concepts into an iOS app
- Conducted rigorous research of current fitness applications in the market and constructed a scorecard to rank user needs

### Professional Experiences

Summer 2013

**Application Developer/BSA** *JP Morgan Chase, Newark, DE*

- Worked on automation of aggregated data generation for report use through Excel Macros, learned proficiency in VBA and gained an understanding of the importance of time savings even on a small scale (Memoization and memory usage).
- Gained a proficiency in code documentation, the development of README files, the practice of Use Cases, and Video Tutorials to guide users.

Summer 2012 **Technical Analyst** *Real Capital Analytics*, New York, New York

- Worked on system configuration of the real estate database for the company.
- Was trained how to use an advanced website scraping software called "Kapow" which creates "Robots" that collect information from websites.
- Helped design a Regression test on the company's website for upkeep.
- Accompanied the CEO to various conferences and honed my social business skills and made valuable connections.

## Leadership

Fall 2011 - Present **Head Resident Assistant** *Lehigh University*, Bethlehem, PA

- 3x Head Resident Assistant for an upper class Residence Area.
- In charge of a group of RA's who are responsible for incorporating their residents into the Lehigh community
- Oversee approx. 200 Lehigh students and collaborate with my staff to give them the best college experience possible
- Developed an Apple/Android application for iPhone and Android devices for Lehigh University Resident Assistant use

Fall 2014 – Present **Founder of Coding the Future** *Lehigh University*, Bethlehem, PA

- Currently the founder and leader of a community called, "Coding the Future" which is comprised of Lehigh students who share a passion for computer science and strive to expand their knowledge outside the classroom
- Focused on 'Coding for Good', and giving back to our community while also exploring the most innovative and interesting topics in computer science

Spring 2014 - Present **Teaching Assistant** *Lehigh University*, Bethlehem, PA

- Prepare lectures, design projects and homework's, and hold numerous office hours per week to accommodate students
- Courses: CSE 297 – Web Applications, CSE 241/CSE341 – Database Concepts and Design, CSE 109 – Systems Programming

## Computer Skills

Languages Java, C/C++, Python, Scheme, SQL, Kapow, Assembly, VBA, Open GL

Web Programming HTML, CSS, PHP, JavaScript, JQuery, Cordova, Phonegap, XML, Web Applications

Operating Systems Windows, Mac OS X, Linux, Android

Mobile Programming Android, iOS

SDLC Agile Software Development, Scrum

## Activities

Division I Varsity Indoor, Outdoor Track and Cross Country, member of ASA (Association of Student Alumni), Gryphon Society, Athletics Tour Guide, Musician, Live Lehigh Community Leader