

willem yarbrough

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Education

Allegheny College

B.S. Computer Science, cum laude, 3.53/4.00

Meadville, Pennsylvania

August 2011–May 2015

Relevant Courses:

- Principles of Computer Organization
- Analysis of Algorithms
- Database System Concepts
- Operating Systems
- Introduction to Compiler Design
- Linear Algebra
- Abstract Algebra
- Combinatorics

Research Experience

Undergraduate Thesis Project

Sept 2014 – May 2015

- **Title:** *Ontology Classification of JSON Documents for JSON-LD Metadata Discovery*
- Wrote software to automatically provide JSON documents with JSON-LD metadata
- Project employed machine learning techniques to classify documents within ontology
- Won Allegheny's ACM Student Chapter Outstanding Thesis Award

Summer Research Assistant – Multi-Robot Systems

Summer 2014

- Wrote simulation to test solution for team consensus problem using Boolean Networks
- Awarded Allegheny's Harold M. State Research Fellowship for proposal

Research Assistant – Database Schema Testing

Spring 2013

- Implemented testing systems for database management system integrity
- Contributed to research by advisor Professor Gregory M. Kapfhammer

Skills

- **Main languages.** Python, Java, Haskell
- **Other languages.** SQL, C/C++, Scheme, HTML/CSS, Javascript
- **Proficiencies.** Unix, Git, Travis CI, Flask, Vim, Photoshop

Work Experience

Teaching Assistant

Allegheny College Computer Science Department

Allegheny College

August 2014 – May 2015

- Instructed intro-level students in the basics of Java and OOP
- Administered laboratory sessions alongside professor

Computing Assistant

Allegheny College Computing Services

Allegheny College

August 2012 – May 2014

- Assisted students and professors with technical support problems
- Supported the computing and communication needs of the Allegheny community

Other Experience and Activities

Technical Director

WARC Meadville

Allegheny College

April 2013–May 2015

- Maintained equipment, automation, and web presence of college radio station

Executive Board Member

Grounds for Change Coffeehouse

Allegheny College

August 2012–Spring 2014

- Managed/maintained campus-wide PR and web presence of not-for-profit college coffeehouse