

## Hawk Weisman

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<http://hawkw.github.io>

### EDUCATION

*Bachelor of Science*  
Double Major in Applied Computing & Environmental Studies  
Allegheny College, Meadville, PA  
Degree expected: May 2016  
GPA: 3.65

#### Relevant Coursework

Data Structures and Algorithms	Computer Organization
Principles of Software Engineering	Operating Systems
Principles of Data Management	Introduction to Compiler Design
Programming Language Implementation	Robotics and Multi-Agent Systems

### SKILLS

<i>Proficient with</i>	Scala, Java, Python
<i>Capable with</i>	C, R, Rust, Lisp, SQL, HTML/CSS
<i>Familiar with</i>	Haskell, Go, CoffeeScript, JavaScript, Polymer

<i>Web Frameworks</i>	Scalatra
<i>Build and CI</i>	Gradle, Ant, sbt, Travis, Jenkins
<i>Testing</i>	JUnit, ScalaTest, Mockito, ScalaMock, JaCoCo, Scoverage
<i>IDEs/Editors</i>	SublimeText, Atom, IntelliJ IDEA, Eclipse
<i>Source Control</i>	Git, GitHub, GitLab

### WORK EXPERIENCE

<i>Web Application Developer</i>	February 2015 — Ongoing
Carr Hall Garden, Allegheny College, Meadville, PA	
<ul style="list-style-type: none"><li>Independently developed a web application for tracking inventory and sales data.</li><li>Worked with the client to determine project requirements.</li><li>Designed and developed web frontend and user interface, using HTML/CSS/JavaScript, Bootstrap, and Jade.</li><li>Designed and developed database-driven web backend, using Scalatra, Slick, and H2DB.</li></ul>	
<i>Lead Software Engineer</i>	Spring 2014 — Ongoing
MeteorCode Laboratories, Meadville, PA	
<ul style="list-style-type: none"><li>Cofounded a small business to develop and publish independently-developed computer games.</li><li>Developed a game engine in Scala and Java, contributing a majority of source code to the project.</li><li>Set up and maintained a development environment using GitLab, Jenkins CI, and Gradle.</li><li>Contributed to the design and development of a Web site, meteorcode.com, using HTML/CSS, SASS/SCSS, and Polymer.</li></ul>	

## SELECTED PROJECTS

### *Decaf Compiler*

Fall 2014

CMPSC420: Introduction to Compiler Design, Allegheny College

<https://hawkweisman.me/decaf>

- Worked on a team to develop a compiler for a small Java-like language.
- Contributed a majority of Scala source code
- Wrote unit tests using ScalaTest
- Developed parsing, semantic analysis, and Javabyte code generation components

### *DeeBee*

Fall 2014

CMPSC380: Principles of Data Management, Allegheny College

<https://github.com/hawkw/deebeef>

- Independently developed a small SQL database for educational purposes
- Developed an architecture for a relational database implementation
- Wrote over 1,700 lines of Scala code
- Wrote unit tests using ScalaTest

### *Pathway Game Engine*

Spring 2014 — Ongoing

MeteorCode Laboratories

<https://github.com/MeteorCode/Pathway>

- Developed an open-source event driven game engine for the JVM platform.
- Implemented features such as file I/O, event system, and scripting systems.
- Contributed over 9,000 lines of Java and Scala source code.
- Designed an extensible architecture for a software development framework.
- Wrote a comprehensive test fixture using tools such as JUnit, Mockito, and JCoCo.

### *Remote Collab SublimeText Plugin*

Spring 2014

CMPSC440: Principles of Operating Systems, Allegheny College

<https://github.com/TeamRemote/remote-sublime>

- Developed an open-source SublimeText plugin to facilitate remote pair programming.
- Contributed over 1,000 lines of python source code.

### *Filesystem Traversal Study*

Spring 2014

CMPSC440: Principles of Operating Systems, Allegheny College

<https://github.com/hawkw/traverse>

- Independently organized a research project to collect and analyze filesystem data.
- Programmed data-collection tools in Python.
- Prepared an IPython notebook to analyze and visualize data.
- Encouraged other students to voluntarily contribute datasets.

### *Knightingale Twitter Analysis System*

Fall 2013

CMPSC290, Software Engineering, Allegheny College

<https://github.com/TeamKnightengale/Knightingale>

- Collaborated with other students to create an open-source software system to analyze Twitter account archive data.
- Responsible for programming analytics and visualization, input/output, and unit testing.
- Contributed a majority of Java code to the project.
- Practiced Agile software development techniques.