

Hawk Weisman

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EDUCATION

Bachelor of Science

Double Major in Applied Computing (Software Engineering) & Environmental Studies
Allegheny College, Meadville, PA
Degree expected: May 2016
GPA:3.67

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, JQuery, Polymer
<i>Web Frameworks</i>	Scalatra, Bootstrap, Slick
<i>Build and CI</i>	Gradle, Ant, sbt, Cargo, 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">Independently developed a web application for tracking inventory and sales data.Worked with the client to determine project requirements.Designed and developed web front-end and user interface, using HTML/CSS, JavaScript, JQuery, Bootstrap, and Jade.Designed and developed database-driven web back-end, using Scalatra, Slick, and H2DB.	
<i>Lead Software Engineer</i>	Spring 2014 — Ongoing
MeteorCode Laboratories, Meadville, PA	
<ul style="list-style-type: none">Co-founded a small business to develop and publish independently-developed computer games.Developed a game engine in Scala and Java, contributing a majority of source code to the project.Set up and maintained a development environment using GitLab, Jenkins CI, and Gradle.Contributed to the design and development of a Web site, meteorcode.com, using HTML/CSS, SASS/SCSS, and Polymer.	

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/deebee>

- 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/remot-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.

REFERENCES

Dr. Janyl Jumadinova
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