

Darby Asher Haller

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Education

University of Wisconsin Madison, BS anticipated Spring 2018

Majors: Computer Science and Math

GPA: 3.9 cumulative, 4.0 in both majors

Machine Organization (COMP SCI 354)

Computer Graphics (COMP SCI 559)

Medical Image Analysis (COMP SCI 567)

Introduction to Data Structures (COMP SCI 367)

Computer Engineering (COMP SCI 252)

Discrete Mathematics (COMP SCI 240)

Honors Proof Based Multivariable Calculus (MTH 376)

Honors Proof Based Linear Algebra and Differential Equations (MTH 375)

Work Experience

- **Tutoring** - tutored computer science, math, and physics (2014-Current)
- **Safeway** - cut fruit, assisted customers (Summer 2016)
- **Owner** - developed and led small lawn mowing business, instructed employee team on mower operation and customer etiquette, negotiated contracts, managed repair/gas costs, arranged lawn care coverage during employee absences, resolved conflicts (2010 - 2014)

Technical Skills

- **Web Development** - developed multiple graphical projects in javascript/webgl/html
- **C** - designed memory allocator and system simulator to analyze performance
- **MATLAB** - wrote scripts which categorized/segmented images using various algorithms, applied sophisticated image transformations and kernels to improve visibility
- **Java** - got a 5/5 on the java-based AP computer science exam, various projects
- **Python** - proficiency with python
- **Linux** - member of linux club, experience developing and using high level tools in linux, remote access, task automation, system administration
- **Hardware** - built own computer with multiple OS's, assisted others in building computers
- **Software Development** - utilized a variety of tools to develop, code, test, validate, and debug algorithms, including various IDE's, as well as vim/gdb/valgrind
- **Software Design** - experience in design documentation/planning, system implementations/integrations (phased, pilot, direct), team programming principles
- **Mathematical Modeling** - used cross-validation and regression to test hypotheses

Honors/Awards/Interests

Wisconsin DC Alumni Scholarship (2016)

Eagle Scout, Philmont trek leader, Highest leadership position (BSA, 2015)

National Merit Scholar Finalist (2015)

National AP Scholar (2015)

Ranked #15 World Smite Duelist (2015)

SCUBA certified (NAUI, 2013)