

Alec Hartline

Contact

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Education

Purdue University, **May 2021**
West Lafayette, IN **CS GPA: 3.31/4.00**

- ❖ B.S. in Computer Science
 - *Tracks:* Programming Languages, Systems Programming
 - *Courses:* Data Structures & Algorithms, Discrete Math, Systems Programming, Computer Architecture, Programming in **C & Java**

Moorestown Highschool, **2013-2017**
Moorestown, NJ

- ❖ AP Scholar with Honor
- ❖ Three years of programming classes

Technical Skills

Learning (1) to proficient(10)

Languages: Java(9), C++(7), C(5), LaTeX(6), CSS(6), HTML(6), Javascript(4), Python(3)

Tools: Eclipse(10), IntelliJ IDEA(7), Git(7), Vim(5), cURL(6)

Experience

CS390CP Teaching Assistant **Jan 2018 - Present**

- ❖ Create programming problems for weekly competitions
- ❖ Help students prepare for ICPC and technical interviews
- ❖ Teach practical applications of data structures and algorithms

Projects

"Juggle" - Java

- ❖ First attempt at building a programming language using an abstract syntax tree as reference
- ❖ Improved my understanding of interpreters

"Wally" - Java

- ❖ Interpreted language exclusively using stack-based memory
- ❖ Conceived and implemented in 10 hours for the Hello World Hackathon
- ❖ Taught me the benefits and drawbacks stack-based systems

"AlecHartline.github.io" - CSS, HTML, Javascript

- ❖ Hosts my professional portfolio of projects
- ❖ Used as a learning environment for HTML5 languages and technologies

CS390CP Solutions - Java, C++

- ❖ Every problem made for the class requires a solution for test case generation
- ❖ Demands understanding of graph theory, dynamic programming, and computational geometry

Extracurricular Activities

Purdue Programming Languages (PurPL)

Aug 2017 - Present

- ❖ Focused on programming language research
- ❖ Weekly showcases of research projects
- ❖ Discusses concepts such as programming language theory, design, security, and verification

Purdue Competitive Programmers Union (Purdue CPU)

TBD XXXX - Present

- ❖ Please change me when the club is formed
- ❖ Founding member and part of the club leadership
- ❖ Designed to Lorem ipsum dolor sit amet, consectetur adipiscing elit.