

# Alec Hartline

---

## Contact

📍 Address: 1301 Third Street, Hillenbrand Hall,  
Room 231A, West Lafayette, IN 47906

🐙 Github: <https://github.com/AlecHartline/>

🌐 Website: <https://alechartline.github.io/>

✉ Email: [Alec.H.Hartline@gmail.com](mailto:Alec.H.Hartline@gmail.com)

📞 Phone: (317) 719-5546

## 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.