

# Charlie Herrmann

4063 Sansom St, Philadelphia, PA 19104 | 610-675-9495 | [crh23@seas.upenn.edu](mailto:crh23@seas.upenn.edu)

## EDUCATION

---

### University of Pennsylvania, Philadelphia, PA

Aug 2019 – Present

- *School of Engineering and Applied Science*: candidate for BSE in Computer Science, expected May 2023
- *Cumulative GPA*: 3.93/4.00
- *Honors*: Engineering Dean's List

### Lower Merion High School, Ardmore, PA

Sept 2015 – June 2019

- *GPA*: 5.00/5.00
- *Honors*: First Honor Roll, Scholar Athlete Award

## RELEVANT COURSEWORK

---

Programming Languages and Techniques I & II, Math Found in Computer Science, Intro to Computer Systems, Python Programming, Automata Computability and Complexity, Scalable and Cloud Computing

## TECHNICAL SKILLS

---

**Languages**: Java, Python, JavaScript, HTML, CSS, Swift, OCaml, C

**Frameworks**: JUnit, Apache Spark, Bootstrap, Django, Flask

**Tools and Technologies**: Git, Github, Eclipse, PyCharm, Xcode, Visual Studio Code, Amazon Web Services

## PROJECTS

---

### PennBook | *JavaScript w/ jQuery, HTML w/ Bootstrap, Amazon Web Services, Git*

Sept 2020 – Present

- Developed a Mini-Facebook for Penn students for Scalable and Cloud Computing class final project
- Users were able to send friend requests to other students, make their own posts, make status updates, send messages to their friends, and more
- Utilized Amazon Web Service tools such as DynamoDB for storing data and EC2 for running a virtual computing environment

### UniHub | *Swift, College Scorecard API, Github*

Jan 2019 – May 2019

- Developed an iOS application to help high school students organize their college application process
- Users could search for information about each school gathered from US Department of Education API
- Users could set notifications for important deadlines, mark their calendars for important events, ect...

### Rubik's Cube Solver | *Java*

May 2019

- Developed a program to solve a 2x2x2 Rubik's cube in the minimum amount of moves
- Mentored by a software developer working at Susquehanna International Group to discuss most efficient data structures and algorithms for this problem

## PROFESSIONAL AND VOLUNTEER EXPERIENCE

---

### Head Coding Instructor

June 2019 – Aug 2019

*Friends' Central Summer Programs*

*Wynnewood, PA*

- Worked with the Camp Director to introduce coding for the first time as an activity at Friends' Central Summer Programs
- Created and taught an introductory computer programming curriculum for campers aged 7-12

### Python Instructor

Nov 2018 – Jan 2019

*Bala Cynwyd Middle School*

*Bala Cynwyd, PA*

- Helped to create an introduction to Python curriculum for middle school students
- Took several field trips to my former middle school to teach Python to 6th, 7th, and 8th grade classrooms

## ACTIVITIES

---

**Tau Epsilon Phi Fraternity**, current Academic Chair

Jan 2020 – Present

**Penn Club Running**, competitive long distance runner

Aug 2019 – Present