

# CHARLIE THARAS

Class of 2027, Williams College

Computer Science & Math, Concentration in Cognitive Science (Expected)

Email for phone #

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 github.com/charlietharas

English (primary)

German (working proficiency)

Spanish (working proficiency)

## ABOUT ME


Student at Williams College interested in summer internships and research opportunities in data science and machine learning, with special focus in natural language processing.

Relevant coursework: Computer Organization, Data Structures & Advanced Programming, Discrete Math, Multivariate Calculus, Cognitive Science, Cognitive Psychology


### Experience With

 Python


 Java


 C/C++

 Go


 React.js


 Git

 Docker


 Anaconda


 GNU Octave


 PostgreSQL

 TensorFlow

 PyTorch

 Pandas

 Matplotlib

 OpenCV

### Certificates

Coursera (Stanford, DeepLearning.AI)

- Machine Learning
- Neural Networks and Deep Learning
- Improving Deep Neural Networks
- Structuring Machine Learning Projects

## WORK EXPERIENCE

### Student Developer

January 2024 – Present

Worked with student mentors on front and back end of Williams College student website. Implemented account synchronization and feature flags for course catalog and scheduler. ([github.com/WilliamsStudentsOnline/wso-react](https://github.com/WilliamsStudentsOnline/wso-react))



### Data Engineering and Bioinformatics Intern, Memorial Sloan Kettering MIND

June 2022 – August 2022

Contributed to Luna ([github.com/msk-mind/luna](https://github.com/msk-mind/luna)) open source histology and cancer detection software. Worked with a team of data engineers at MSK MIND on training unsupervised learning models for cancer cell detection. Developed lightweight .svs viewer and annotator for pathologists to aid in model training pipeline.



### National Executive Team, Steel City Codes

November 2021 – August 2023

Ran operations for nationwide nonprofit, oversaw regional recruiting, staffing, and expansion, managed 2K+ students and \$20k budget. Developed and rolled out new afterschool and workshop curricula in partnership with MRI Software and SCC national team. Worked as lead organizer for three international hackathons ("Steel City Hacks" on Devpost).



### New York City Chapter Head and Tutor, Steel City Codes

November 2020 – November 2021

Volunteer position hosting weekly computer science classes on Zoom for 4th to 8th graders in underserved communities. Developed communication skills hosting volunteer interviews, reaching out to prospective schools for chapter expansion, speaking to volunteers, leading time management for the region, and working with children.



### Surf Instructor, Skudin Surf

June 2021 – September 2023

Practiced communication and safety management skills at part-time summer job involving private lessons with adults and daily youth surf camp. Worked with children, elders, and people with disabilities. Lifeguard, CPR, and first-aid certified with the Red Cross (exp. Jan 2025, 011JMPL).

## CLUBS AND ORGANIZATIONS

### Member, Williams Undergraduate Research Journal

Discuss scientific papers and possible research areas with peers. 2023–

### President, Computer Science Consortium

Planned & taught computer science lessons, 2021–2023

### Hackathon Organizer, Data Analytics for Change

Wrote capture-the-flag problems for coding competitions 2021–2023

### Writer, BITS Magazine

Wrote articles for school computer science magazine, 2021–2023

## AWARDS AND COMPETITIONS

### HCHS Community Service Award

Highly selective school award, 600+ service hours with Steel City Codes

### Best Overall, HackTrin VIII

Won with accessibility-themed computer vision aerial handwriting parser

### 2nd Place, CodeQuest Stratford 2021

Annual Lockheed Martin coding competition

### Senior Division, American Computer Science League

Qualified for finals in 2020 and 2021.