CHARLIE THARAS

Class of 2027, Williams College
Computer Science & Math, Concentration in Cognitive Science (Expected)

Email for phone #
charlie@**charliemax.dev**
github.com/charlietharas

English (primary)
German (professional working)
Spanish (limited working)

ABOUT ME

Sophomore at Williams College (3.9 GPA) seeking summer internships and research opportunities in data science and software engineering. Particularly interested in interdisciplinary sociological and urban research using machine learning models, NLP-driven language analysis, critical theory, and human geography.
Relevant coursework: Deep Learning, Algorithms, Data Structures, Statistical Modeling, Linear, Discrete, Multi, Critical Race Geography, Cognitive Science, Cognitive Psychology

Experience With

- Python
- Java
- C/C++
- Go
- R
- GNU Octave
- PostgreSQL
- Git
- Docker
- Anaconda/Pip
- 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 AND VOLUNTEER EXPERIENCE

Transportation Researcher, Williams Center for Learning in Action

June 2024 - Present

- Designing carpool web application under mentorship of a transportation demand management coordinator
- Developing ride-matching algorithm, backend database, user interface, and REST API
- Conducting research into microtransit solutions for rural areas such as the Berkshires

Student Developer, Williams Students Online

January 2024 - Present

- Working with student mentors on front and back end of Williams College student website
- Implemented account synchronization, catalog integration, and feature flags for course scheduler

Data Engineering and Bioinformatics Intern, Memorial Sloan Kettering MIND

June 2022 - August 2022

- Improved unsupervised learning models for cancer cell detection with data engineers at the Luna open-source histology project (github.com/msk-mind/luna), developed new feature preprocessing steps for megakaryocytes
- Created lightweight histology slide viewer and annotation tool to streamline pathologist workflow for training pipeline

Various Roles, Steel City Codes (Executive Team)

November 2020 - August 2023

- Led operations serving 2,000+ annual students nationwide, managed organizational partnerships, conducted volunteer interviews, contacted school administrators, and oversaw regional recruiting, staffing, and expansion
- Organized international hackathons ($15K+ in sponsorships/donations, “Steel City Hacks” on Devpost), personally developed equitable STEM curricula, rolled out new workshops in collaboration with corporate donors

CLUBS AND ORGANIZATIONS

Teaching Assistant, CSCI 136

Develop supplemental material, supervise lab sessions, host help hours, 2024-

President, Computer Science Consortium

Planned & taught high school computer science lessons, 2021-2023

Teaching Intern, Science Research Seminar & CS9

Developed curricula, assisted with class, gave lessons, graded homework, 2022-2023

Writer, BITS Magazine

Wrote articles for high school’s annual computer science magazine, 2021-2023

HONORS AND AWARDS

Spring 2024 Class of ‘60s Scholar

Awarded to high-achieving and passionate computer science students.

2024 Ward Prize Nominee

For creating a compelling student project (CitySim, CSCI 136).

2023 High School Comp. Sci. Award

Awarded to exemplary computer science students.

2023 Sheila Glickstein Hackner Award

For dedication in the service of education for others, 600+ service hours.