

Charlie Tharas

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Williams College '27 seeking opportunities in data science and software engineering. Interested in sociological and urban research, with an emphasis on the interdisciplinary study of urban dynamics through machine learning models, NLP-driven language analysis, critical theory, and human geography.

SKILLS

Python, Java, Go, C, C++, PostgreSQL, MySQL, GNU Octave, Git, Docker, Anaconda, Pip
TensorFlow, PyTorch, Pandas, Matplotlib, Seaborn, OpenCV

EDUCATION

Williams College | GPA: 3.86 Williamstown, MA
Computer Science & Math, Concentration in Cognitive Science (expected) 2023-2027
Relevant coursework: Computer Organization, Data Structures, Discrete Math, Multivariate Calculus, Cities Suburbs & Rural Places, Intro to Cognitive Science, Cognitive Psychology

WORK EXPERIENCE

Williams Center for Learning in Action Remote, Williamstown, MA
Transportation Researcher, Ad Hoc Transit Group Jun 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.

Williams Students Online Williamstown, MA
Student Developer Jan 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.

Memorial Sloan Kettering Cancer Center Remote, New York, NY
Data Engineering Intern, Multi-Modal Integration of Data Team Jun 2022-Aug 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.

Steel City Codes Hybrid, New York, NY
Various Roles, National Executive Board Nov 2020-Aug 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+ raised, "Steel City Hacks" on Devpost), developed equitable STEM curricula, rolled out workshops in collaboration with sponsors.

HONORS & AWARDS

Class of 1960s Scholar in Computer Science	2024
Nominee, Computer Science Ward Prize for Student Projects	2024
Scheila Glickstein Hackner Award for Dedication in the Service of Education for Others	2023
Hunter College High School Departmental Awards for Excellence in Computer Science and English	2023