

Sarah Olson

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EDUCATION

Worcester Polytechnic Institute (WPI)

Worcester, MA

Master of Science in Computer Science GPA 3.86/4.0

May 2025

Bachelor of Science in Computer Science GPA 3.86/4.0

May 2025

Highlighted Coursework: Software Engineering, Artificial Intelligence for Adaptive Educational Technology, Human Computer Interaction, Machine Learning, Computer Networks, Operating Systems, Object Oriented Analysis and Design

SKILLS

Programming Languages: JavaScript, Python, R, TypeScript, Java, C++, C, MATLAB

Frameworks: React.js, Next.js, AWS, Tailwind, Express.js, MongoDB, Node.js, Svelte, PyTorch, TensorFlow, MySQL

Other: Git, Agile, HTML/CSS, Final Cut Pro X, German, Spanish

EXPERIENCE

Learning Sciences and Technology MAPLE Lab

Aug 2024 - Present

Graduate Researcher

Worcester, MA

- Analyzed the effect perceptual cues had on the accuracy and response time of **200+** college students solving **114** math problems using online eye-tracking and cognitive control assessments
- Utilized **Webgazer** to collect eye-tracking data and **R** for data cleaning and analysis

Capital One

Jun - Aug 2024

Software Engineer Intern

McLean, VA

- Collaborated with a pod of 4 interns to design and implement an internal backtesting tool to enable analysts to accurately determine credit score thresholds for products
- Utilized **React.js**, **Next.js**, and **Tailwind** for the front-end implementation and **AWS S3** and **EC2** for deployment
- Leveraged automated and manual testing to ensure **100%** keyboard and screen-reader **accessibility**

PROJECTS

Exploring the Coding Practices of Neurodiverse Students

Aug 2024 - Present

- Incoming August 2024

Retraining AI with Trusted Data

Aug 2024 - Present

- Collaborated with AI startup Darshana to improve the effectiveness of candidate suggestions for recruiters by comparing models trained with verified vs unverified data

Assessing the Impact of Sediment in Wairarapa Moana | Final Cut Pro X

Aug - Dec 2023

- Produced with 3 other students a 35 minute documentary to explore a surrounding community's changing connection with a polluted wetland in New Zealand to support efforts for change
- Received **1000+** views and increased national awareness and government funding to improve the health of the lake

LEADERSHIP EXPERIENCE

CSAccess Working Group Member, Computer Science Teachers Association

Aug 2023 - Present

- Evaluated and discussed the accessibility of key tools used in K-12 Computer Science curricula with educators
- Collaborated with 5 Senior PMs from Code.org to improve the keyboard navigation of 10 features of Blockly

Affiliations: AccessComputing, Rewriting the Code, NCWIT, Upsilon Pi Epsilon, Break Through Tech AI @ MIT