

Allison M. Truhlar

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LANGUAGES AND TECHNOLOGIES

Languages and frameworks: JavaScript, TypeScript, React, React Router, Astro, HTML, CSS, Python, FastAPI
Technologies and tools: Git, GitHub, Docker, VSCode

SELECT EXPERIENCE

Scientific Computing Associate, Full Stack Web Development

Dec 2023 - Present

Howard Hughes Medical Institute

Ashburn, VA

- Led the design and development of an open source [website](#) to showcase software created by scientists at HHMI, utilizing React and AstroJS. Automated contribution linting and deployment with GitHub actions, reducing the number of PRs requiring maintainer intervention.
- Built a web app and REST API allowing users to run a scientific image classification ML model in their browser, utilizing React and ONNX for the interface and Docker for containerization.
- Developing a web app and software to allow scientists to schedule and conduct imaging in a robotic camera system. Quickly learned how to use and integrate the Robot Operating System (ROS) and Raspberry Pi camera dependencies and adapted to shifting experimental requirements to deliver working prototypes.
- Collaborating with a team of engineers to build an internal [file sharing app](#). Primarily responsible for translating the UI design into frontend code using React and Typescript.

Front End Developer (Volunteer)

Aug – Nov 2023

Chingu

Remote

- Collaborated in a remote team of 6 developers to deliver an app over 6 one-week sprints.
- Developed user stories for app features and used these to define the MVP and inform weekly app iterations. Tracked task backlog in GitHub Projects.
- Built two React apps – an [app](#) to explore meteorite data and an [app](#) to query a REST API for recipes.

Program Manager, Evaluation

Sep 2021 – Jul 2023

AAAS Science & Technology Policy Fellow

Sep 2019 – Sep 2021

U.S. Department of Energy

Washington, DC

- Worked with staff from 17 U.S. Department of Energy (DOE) National Laboratories to understand their information needs related to the applicant and placement data for DOE internship programs.
- Utilized R to create analyses and visualizations meeting these needs. Analyzed 6 years of applicant and placement data from 3 DOE internship programs (a total of approximately 2,500 applicants annually).

Postdoctoral Research Associate

Aug 2017 - Jan 2019

New York State Water Resources Institute

Ithaca, NY

- Used tools built in ESRI ArcGIS and Python to generate flooding risk data for road crossings in New York.

EDUCATION

Scrimba

Oct 2022 – May 2023

[Certificate](#), Self-paced Front End Developer bootcamp

Remote

- Completed over 80 hours of lectures and 12 solo projects focused on React, JavaScript, CSS, and HTML.

Cornell University

2011 and 2017

BS and PhD, Biological and Environmental Engineering

Ithaca, NY