

# Raymond Cao

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## Summary

- **Interests:** Open Source, Web Development, Digital Privacy, Accessibility, Design, Computer Science
- **Keywords:** Discoverer, Organizer, Communicator, Creative, Proactive; Myers-Briggs Type: INFJ

## Education

**Brown University**, Providence, RI | 09/17–to Date

Computer Science Concentration (Sc.B.); Class of 2021

- Courses in artificial intelligence, deep learning, data science, computer vision, algorithms
- Significant experience in Java, JavaScript (ES6+), Python 3, C; Basic proficiency in PHP, C#, and R

## Experience / Projects

**DataRobot**, Columbus, OH | Summer engineering Intern | 05–08/2019

- Worked in Explainable AI team
- Reimplemented AngularJS and D3 chart component using React.js and React Hooks
- Integrated UI with Shapley value-based feature impact API, internal PNG export service for D3 charts

**Buckeye Innovation**, New Albany, OH | Summer developer Intern | 06–08/2017, 06–08/2018

- Designed, built, and deployed an internal time-tracking web application for client billing (2017)
- Worked on client projects and revamped time-tracking web app for much better performance (2018)
  - React.js and Bootstrap for user interface and Laravel with Postgres for the server, integrated project management functionality with a Phabricator instance.
  - Built data visualization for sprint planning.
  - PHP framework Laravel; designed and implemented REST-compliant APIs within PHP app;
  - Laravel database migrations, models, and controllers. ECMAScript 6 (ES6),
  - Asynchronous (public and private) API calls within React.js components (see projects)

**Nationwide Children's Hospital Research Institute**, Columbus, OH | Research Intern | 06–08/2016

- Conducted project on researchers' personality and info tech management behavior;
- Submitted research to American Medical Informatics Association High School Scholar Program

**Brown Political Review** ([brownpoliticalreview.org](https://brownpoliticalreview.org)), Providence, RI | Lead Web Dev | 09/2018 to date

- Led development of redesigned WordPress website for student publication website
- Worked closely with magazine board and designers and improved loading performance by 10 times
- How: Bootstrap, jQuery, SCSS. Created custom WordPress themes using Advanced Custom Fields, custom shortcodes, Bootstrap (as well as CSS, Less, SCSS), Gravity Forms

**Nashoba Learning Group**, Providence, RI | Volunteer Developer | Autumn, Winter Break 2019

- Background: Nashoba Learning Group is an education program for children and adults with autism.
- Developed a scheduler web application around the specific needs and constraints of Nashoba Learning Group ([nashobalearninggroup.org](https://nashobalearninggroup.org)). Used jQuery and Bootstrap for user interface, and Java with SQLite for the server. Focused on designing database schema and API for server and UI.

## Skills/Activities

### Teaching/Training:

- Lead Instructor on intro computer science classes for middle school girls through Google IgniteCS
- Teaching Assistant at Brown University teaching bash, git, regex, Python Flask

### Brown University Technology House:

- On-campus program housing; elected as treasurer in 2019, manage budget and dues for organization, serve as a bridge between Technology House and Brown's Student Activities Office