

# Aritra Saha

## Software Engineer

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[aritrasaha.com](http://aritrasaha.com)

### Experience

#### App Academy

*Technical coordinator, Jumpstart Online*

Dec. 2018 – Present

- Designed & developed custom script to automate daily workflow
- Work with product team to create a new online platform for Jumpstart course
- Provide assistance & feedback to students when completing daily assignments

*Programming Instructor, Jumpstart*

July 2018 – Present

- Give lectures on computer science fundamentals and intermediate Ruby
- Lead a circle of 3-5 students to provide extra-curricular help with class materials

**New York City Council Election | Canvasser**

Sep. 2017 – Nov. 2017

- Canvassed door to door, persuading potential voters in favor of Daneek Miller

**CNSE Energy Constellation | Undergraduate researcher**

Sep. 2016 – May 2017

- Conducted research and analysis to replace current catalytic support for hydrogen fuel cells with materials such as TiN and Ta<sub>2</sub>O<sub>5</sub> to increase efficiency

### Skills

JavaScript	Ruby on Rails	PostgreSQL	React	Redux	jQuery	CSS	HTML
Ruby	AWS S3	Git	Webpack	Heroku	Babel	Node.js	Python

### Projects

**Definitely Not Instagram | A single page web application inspired by Instagram**

[GitHub](#) | [Live](#)

- Stack: Ruby on Rails, PostgreSQL, React, Redux, JS-ES6, HTML5, CSS3, AWS S3, Heroku
- Implemented Rails polymorphic associations for likes on posts and comments
- Employed CSS3 flexbox and z-index and React-Modal for a compelling and flexible layout
- Built custom JS function for showing post based on image dimension resulting in responsive design
- Ensured database calls run asynchronously through AJAX and Thunk middleware for a smooth UI

**A-Mazing Game | A game & graph algorithm simulator with mazes**

[GitHub](#) | [Live](#)

- Stack: JavaScript, HTML5, CSS3, Canvas
- Implemented graph traversal algorithms such as DFS and BFS to generate and solve mazes
- Built a customized algorithm to calculate the 2D position of a node in a 1D array
- Performed dynamic DOM manipulation with just vanilla JavaScript

**AQuery | A JavaScript DOM Manipulation lightweight Library inspired by jQuery**

[GitHub](#)

- Applied native DOM API to control core DOM manipulation, AJAX requests, & event handling

### Education

#### App Academy

Mar. 2018 – June 2018

- Rigorous 1150 hours of software development curriculum with <5% acceptance rate
- Topics include: TDD, scalability, algorithms, data structures, OOP, meta-programming, dynamic-programming, RESTful API, CRUD, authentication, single-page apps, UI/UX and best practices

**Colleges of Nanoscale Science and Engineering (CNSE), SUNY at Albany**

Sep. 2013 – June 2017

- B.S. – Nanoscale Engineering; Minors – Mathematics & Political Science
- Magna Cum Laude / 3.63 GPA
- Founded and chaired the UAlbany's Theta Tau chapter
- Awarded the Chancellor's Award for Student Excellence by SUNY - Highest SUNY award