

Aritra Saha

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aritrasha.com

Software Engineer

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

Undergraduate researcher

Sep. 2016 - May 2017

- Energy Application - R&D to replace current catalytic support for hydrogen fuel cells with materials such as TiN and Ta₂O₅ to increase efficiency

Research Intern

June 2015 - May 2016

- Biotech - R&D to create an in-vitro microtubule network prototype by microcontact printing as part of a long-term objective to create an over-encompassing model for various applications including, but not limited to, testing cancer therapies

Skills

JavaScript
Ruby

Ruby on Rails
AWS S3

PostgreSQL
Git

React
Webpack

Redux
Heroku

jQuery
Babel

CSS
Node.js

HTML
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