

# SEAN CHOWDHURY

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## PROFESSIONAL EXPERIENCE

### App Academy JumpStart

Aug 2017 - Present

Teaching Assistant / Software Engineer

- Teach Ruby syntax and best programming practices to prospective software engineers.
- Build/update internal tools with Ajax calls to Postgres database and building relational tables as needed

## SKILLS

**Coding:** Ruby on Rails, RSpec, JavaScript, jQuery, React + Redux, Postgres, SQL, Git, HTML, CSS

**Data and Image Analysis:** MatLab, Excel, ArcGIS, ENVI

## PROJECTS

**Kunkka** - [live link](#) - [repo](#) - Ruby on Rails, React/Redux, SASS, Postgres, Google Maps API

*Nautical mapping single-page web app inspired by Strava*

- Leveraged Google Maps API to allow users to generate courses and content.
- Deployed custom auth pattern in Rails using BCrypt and
- Designed an algorithm involving XHR requests and Canvas to detect terrain on Google's map.
- Utilized terrain checker to build a custom algorithm that draws nodes around a user's course to map the path of a river and calculate it's heading.

**Hawk and the Minnow** - [live link](#) - [repo](#) - JavaScript, Canvas, HTML, CSS

*A JavaScript platformer with a lot of heart*

- Built collision detection in JavaScript/Canvas checking the user's position relative to platforms.
- Implemented custom JavaScript class states for player falling, movement through platforms and platform ejection.

**Command Line Chess** - [repo](#) - Ruby

*Chess built from scratch for the Ruby Command Line*

- Created class modules to destructure piece logic into manageable sections.
- Added conditional logic for advanced moves such as en passant and castling.

## EDUCATION

### App Academy

May 2017 - Jul 2017

- 1000-hour full stack web development program with <3% acceptance rate

### City College of New York

Jan 2013 - Dec 2016

- Bachelor of Arts, Earth and Atmospheric Sciences