

# Hunter Manel

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GitHub

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LinkedIn

New York

*Passionate learner who completed their undergraduate physics degree in 3 years excited to apply their computational and analytical skills as a software engineer*

## PROGRAMMING SKILLS

JavaScript ES6, Ruby, Python, React, Redux, Ruby on Rails, CSS3, HTML5, Git, Max/MSP, Postgres, SQL

## COMPUTATIONAL SKILLS

Data Structures & Algorithms, Applied Mathematics, Calculus III, General Relativistic Modelling, Fourier Analysis

## EDUCATION

App Academy | 2019-2020 | New York, New York

- Intensive programming boot camp, with < 3% acceptance rate and 1100+ hours of experience in software programming, focused on fullstack web development using multiple languages and frameworks including JavaScript, React/Redux, Ruby on Rails, etc.

Bard College | BA Physics, 2015-2018 | Annandale-on-Hudson, New York

- Completed an undergraduate degree in 3 years, participated in Gravitational Microlensing research and wrote a senior thesis entitled, '[A Technical Analysis and Exploration of Guitar Pickups](#),' accruing 1700+ downloads.

## PROFESSIONAL EXPERIENCE

Software Engineer / Volunteer (React/Redux, Ruby on Rails, Stripe, HTML5, CSS3)

[The Giving Grape](#)

Oct 2020 - February 2021

- Designed and built new web pages with functional React components to display information pertaining to individuals adversely affected by Covid-19.
- Added functionality to Rails Admin console, allowing non-tech team directors to easily access statistics and analytical data relating to donors and donees.
- Implemented Stripe API that processes 100's of user donations, allocating more than \$15,000 to families in need.
- Interviewed new engineers and upheld software engineering best practices with git workflow.

Head Instructor

Mathnasium Forest Hills

Aug 2018 - June 2019

- Developed teaching techniques and learning plans for high school students and students with IEPs (Individualized Education Program).
- Managed the center, taking on the responsibility of teaching new employees, grading new hires' entrance exams, exercising well-developed communication skills with parents, while instructing.

## PROJECTS

**Splat** | (React/Redux, Express, Node.js, HTML5, CSS3, MongoDB)

[live](#) | [github](#)

Interactive single page audio sampler and sequencer

- Implemented Tone.js in order to play multiple audio samples simultaneously, control tempo and swing, and preload audio samples.
- Developed React components that enable users to manipulate and interact with the app in real time.
- Carried out an effective Git workflow to ensure efficient team collaboration and workload distribution.

**Bends** | (JavaScript, Three.js, HTML5, CSS3)

[live](#) | [github](#)

Renders a 3D depiction of a massive object warping the section of space-time it inhabits

- Leveraged the Three.js library in order to create malleable 3D objects that can be manipulated via drag and drop controls.
- Combined Newton's Law of Gravitation and 3D Pythagorean Theorem into an algorithm that could dynamically determine radial lengths between two points and scale the bounding cube accordingly.