

# Phelipe Fernandes

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[Phelipe.io](http://Phelipe.io)

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**TECHNICAL SKILLS** JavaScript, Ruby, Rails 5, React, Redux, Git, CSS3, HTML5, D3.js, Recharts, jQuery, Python

## PROJECTS

**tikr** | (React, Redux, Rails 5, Recharts, JavaScript)

[tikr.herokuapp.com](https://tikr.herokuapp.com) | [github.com/pdfernandes/tikr](https://github.com/pdfernandes/tikr)

*tikr is a single-page app inspired by Robinhood, tikr provides users with real-time stock information and allows users to execute trades, receive news, and monitor their portfolio.*

- Integrated Recharts library with external APIs to construct charts that provide real-time stock information.
- Leveraged JavaScript's asynchronicity and React/ Redux's state and store management to allow charts to rerender without interrupting UX.
- Developed custom running total algorithms to calculate portfolio value using historic API prices, allowing users to access their portfolio value across different time spans.
- Produced modular React components for forms and charts ensuring DRY code and improved scalability.
- Optimized AJAX requests decreasing API calls by 50%, improving overall website responsiveness.

**Universtaty** | (JavaScript, d3.js)

[pdfernandes.github.io/Universtaty](https://pdfernandes.github.io/Universtaty) | [github.com/pdfernandes/Universtaty](https://github.com/pdfernandes/Universtaty)

*Universtaty is a one-page pure JavaScript web application that integrates D3.js and external API to visualize college information in a simple and digestible format.*

- Leveraged D3.js pie chart and bar chart modules to create SVG data visualizations, providing users with clear and concise university statistics.
- Developed modular functional components that can be reused for varying datasets, allowing for greater scalability and more semantic code.
- Incorporated external APIs to display world map which populates with the precise location of universities.

## EXPERIENCE

**Physics/Computer Science/Algebra/Geometry Teacher**

*St. John's Preparatory School*

Sept 2015 - Jul 2019

- Designed curriculum for first technology-related course in St. John's Prep. focusing on OOP using Python.
- Founded Science Olympiad chapter promoting students' passion for STEM.
- Achieved a 93% passing rate for state exams in Physics and Mathematics, improving department averages 10%.

**Vice-President/Treasurer Teachers Association**

*St. John's Preparatory School*

Aug 2016 - Jul 2019

- Negotiated teacher contracts for 2017-2020 contract period, securing 1% each year plus additional flat amount.
- Advocated for teachers and acted as a liaison between faculty and the board of trustees, improving communication between departments.

## EDUCATION

**CUNY Hunter College - BA Physics & Economics, 2011-2015**

Relevant coursework- Calculus I-III, Electronics, Mathematical Proofs, Differential Equations, Classical Mechanics

**AppAcademy - Full Stack Course, 2019**

1000-hour web development program that encompasses, Rails, JavaScript, Redux, PostgreSQL, JavaScript, React, TDD, OOP, design patterns, and programming best practices.