

# Daniel Espina

[Github](#) [LinkedIn](#) [Personal](#)

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## SKILLS

React.js, Ruby on Rails, JavaScript, PostgreSQL, Ruby, jQuery, Redux, SQL, HTML5, CSS, Python, MATLAB

## PROJECTS

### Sparrow (Ruby on Rails, React.js, PostgreSQL)

[Live Site](#) | [Github](#)

*A full-stack, single-page online brokerage application*

- Leverages ActiveRecord and PostgreSQL to efficiently query and display data from 8600 rows, reducing load times and improving scalability
- Performs AJAX requests to custom internal and external REST API endpoints to perform CRUD and provide enhanced real-time asset information
- Evaluates transactions on client-side using Redux state to reduce loading times and ensure a seamless, responsive user experience

### The Flying Dutchman (JavaScript, HTML5, CSS3)

[Live Site](#) | [Github](#)

*A browser-based infinite run game*

- Built using JavaScript and HTML5 canvas to provide users with an interactive experience on a dynamically generated sea using polynomial interpolation

### Derivatives On Meals (JavaScript)

[Live Site](#) | [Github](#)

*A lightweight JavaScript library used display graphs*

- Utilized vanilla JavaScript to build methods for executing asynchronous HTTP requests and allowing DOM object selection and manipulation

## EDUCATION

### App Academy (2018)

- Immersive software development course with focus on full stack web development

### University of North Carolina at Charlotte (2011 - 2017)

*MS - Mathematics, GPA: 3.4*

- Completed required coursework and passed required exams for PhD degree
- Implemented Numerical Linear Algebra algorithms in MATLAB and C++ to solve Partial Differential Equations and analyze error estimates

### Marist College (2008 - 2011)

*BS - Applied Mathematics, Economics concentration, GPA: 3.5*

- Selected to present poster at undergraduate research conference showcasing fractals generated over thousands of iterations on a 500x500 grid in MATLAB

## EXPERIENCE

### Technician

*Custom Computer Specialists*

2017 - 2018

- Wrote Python scripts to automate cleanup of 200 Windows security groups and shared mailboxes, resulting in time saved and streamlining the future process

### Graduate Assistant

*University of North Carolina at Charlotte*

2011 - 2016

- Created and assigned projects in MATLAB, Java, and C++
- Taught classes in Linear Algebra, Discrete Mathematics, and Calculus