

A.Plyushchay@gmail.com
917-945-8770

3518 12 Ave 2nd Fl. Brooklyn, NY

PROJECTS

Casa Mare (Rails, React-Redux, CSS)

Live | GitHub

Home buying, renting and selling single page application inspired by Zillow

- Integrated Google Maps API to filter by map boundaries and real-time address validation
- Implemented RESTful API with Rails CRUD functions that responded with ¡Builder-rendered JSON
- Minimized AJAX calls in React components resulting in minimal database hits while providing a seamless user experience and interface

Fight or Flight (JavaScript, jQuery, CSS)

Live | GitHub

2D Aerial combat with intelligent AI enemies

- Programmed a dynamic AI to follow and shoot the player while avoiding crashing into them
- Developed using pure JavaScript by manipulating the HTML canvas element with vector mathematics

DOMination (JavaScript)

GitHub

JavaScript library for HTML manipulation influenced by jQuery

- Simplified HTML document traversal, manipulation, and event handling with intuitive method calls
- Automated AJAX calls to requiring only an object by reducing boilerplate code

SKILLS

Ruby	React.js	JavaScript	HTML5	AJAX	WordPress
Rails	Redux	jQuery	CSS	SQL	Python (Learning)

EXPERIENCE

Roanwell Corporation | Bronx, NY

2015 - 2018

Mechanical Engineer, R&D Engineering Department

- Developed a website for subsidiary using Wordpress, PHP, CSS and HTML5.
- Designed and manufactured flagship headsets with sound suppression for firearms and designed the Marketing Catalog using Adobe InDesign.
- Designed and manufactured modular molding blocks that reduced manufacturing cost and time from \$100 in one week to \$10 in one day.

Metropolitan Transportation Authority (MTA) | New York, NY

2013

Station Analyst (Internship), Station Evaluation Department

- Developed a prototype application in Visual Basic that eliminated manual text input to a simple touch-and-go system.
- Created a comprehensive system of station descriptions that reduced future mistakes.

EDUCATION

App Academy | New York, NY

2018

- Rigorous and intensive 1000-hour software development course with <3% acceptance rate.
- Emphasis on algorithms, scalability, TDD, OOP, REST, best practices and efficient design.

Grove School of Engineering - City College of New York | New York, NY

2015

Bachelor of Engineering, Mechanical Engineering

- Course Highlights: Thermodynamics, Aerodynamics, Mechatronics, Control Systems.
- Organizations: Aerospace Club, National Association of Rocketry (NAR), Planetary & Rocket Science.
- Awards: The Jack & Jelly Feinstein Best 2015 Senior Design Project (ALICE Robot)