Melanie Davila

✉ davilam91@gmail.com   ☎ (917) 745-3848   🏠 116 East 31st St., Apt 4F, New York, NY 10016

Projects

midSoul | *PostgreSQL, React.js/Redux, Rails*   **Live** ● **GitHub**

A fullstack, single-page application for runners, inspired by MapMyRun

- ❏ Utilized Google Maps API encoded polyline algorithm to optimize database storage of geographic coordinates representing running routes, resulting in seamless UX when creating and viewing routes
- ❏ Structured FeedItem model to incorporate polymorphic associations, facilitating the aggregation of activity feed items and enabling effortless integration of other activities in the future

(Re)Mission Possible | *JavaScript, Easel.js*   **Live** ● **GitHub**

A browser-based antibody-flinging, cancer butt-kicking game

- ❏ Integrated DRY, object-oriented design principles resulting in maintainable code base
- ❏ Leveraged the Easel.js library and the attributes of its shape class in order to provide accurate collision detection, enhancing the UX

Dynamic Record | *SQL, Ruby*   **GitHub**

A lightweight Ruby object relational mapping (ORM) library

- ❏ Incorporated metaprogramming techniques and SQL to facilitate database queries
- ❏ Improved user experience by providing seamless single and multi-step associations via implementation of object-relational-mapping

Skills

Ruby

Ruby on Rails

JavaScript

jQuery

React.js

Redux

SQL

Git

HTML

CSS

Work Experience

Memorial Sloan Kettering Cancer Center   **October 2014 - October 2016**
Research Study Assistant II   New York, NY

- ❏ Managed over 300 pediatric oncology clinical trial enrollments and performed analyses of corresponding data, facilitating peer-reviewed publications and contributing to outstanding performance during audits

RUCDR Infinite Biologics   **December 2013 - June 2014**
Laboratory/Technical Assistant   Piscataway, NJ

- ❏ Performed SNP analyses on DNA samples, gathering data regarding human susceptibility to disease and contributing to successful fulfillment of data requests from researchers

Education & Training

App Academy   **December 2016 - March 2017**
Rigorous full stack web development course with ~3% acceptance rate   New York, NY

Rutgers University   **September 2009 - May 2013**
Bachelor of Arts in Genetics   New Brunswick, NJ
GPA 3.73, Magna Cum Laude, *Curriculum Highlights:* Statistics for Research

Volunteer Experience

Casa do Caminho   **June 2013 - December 2013**
Volunteer Educator   Xerém, Brazil

- ❏ Designed and implemented STEM and foreign language education initiatives, exposing youth and community members to subjects not otherwise taught in the local region
- ❏ Performed 3-5 weekly twenty-four hour shifts to supervise orphans and at-risk youth