## **Melanie Davila**



Projects midSoul   PostgreSQL, React.js/Redux, Rails  A fullstack, single-page application for runners, inspired by MapMyRun  □ Optimizes database storage of geographic coordinates representing	<b>Skills</b> Ruby Ruby on Rails
running routes via encoded polyline algorithm available through Google Maps API	Java\$cript : a
<ul> <li>Facilitates aggregation of activity feed items using a polymorphic FeedItem model and custom SQL queries</li> </ul>	jQuery
(Re)Mission Possible   Javascript, Easel.js <u>Live</u> • <u>GitHub</u>	React.js
A browser-based antibody-flinging, cancer butt-kicking game  Integrates DRY, object-oriented design principles	Redux
<ul> <li>Optimizes drawing the HTML5 canvas element by solely redrawing objects that changed with the Easel.js library</li> </ul>	SQL
Dynamic Record   SQL, Ruby <u>Live</u> • <u>GitHub</u>	Git
An ORM inspired by the ActiveRecord pattern of Ruby on Rails	HTML
<ul> <li>Incorporates metaprogramming techniques and SQL to facilitate database queries</li> <li>Implements object-relational-mapping and provides seamless single and multi-step associations</li> </ul>	CSS
Rigorous full stack web development course with ~3% acceptance rate  Rutgers University  September 2	<b>016-March 2017</b> New York, NY <b>2009 - May 2013</b> w Brunswick, NJ
Work Experience  Memorial Sloan Kettering Cancer Center  Research Study Assistant II  ☐ Managed over 300 pediatric oncology clinical trial enrollments and performed corresponding data, facilitating peer-reviewed publications and contributing performance during audits	
RUCDR Infinite Biologics Laboratory/Technical Assistant  Managed thousands of biospecimens and performed SNP analyses on DNA states.	<b>2013-June 2014</b> Piscataway, NJ samples, aiding

## **Volunteer Experience**

Casa do Caminho Volunteer Educator June 2013-December 2013

in successful fulfillment of biospecimen and data requests from researchers

Xerém, Brazil

☐ Performed 3-5 weekly twenty-four hour shifts to supervise orphans and at-risk youth

Designed and implemented science and foreign language education initiatives, exposing youth and community members to subjects not otherwise taught in the local region





