Philip **Larie**

55 9th St. Apt 521 • San Francisco, California • 94103
CELL (603) 913-3476 • **E-MAIL** philiprlarie@gmail.com
Web Page philiprlarie.github.io • **LinkedIn** linkedin.com/in/philiplarie • **Github** github.com/philiprlarie

PROJECTS

MusicMastrMind *(Rails, Backbone.js)* **live** | **github**

Song lyrics and annotations website based on Rap Genius.

- Bootstraps user data on page load to avoid extra AJAX requests.
- Implements custom secure authentication using BCrypt, passwords stored as secret hash.
- Nested associations reduce server requests by pulling data from multiple database tables.

Rails Lite *(Ruby)* **github**

MVC web application framework inspired by and featuring the core components of Rails.

- Controller base class provides core functionality for rendering html responses.
- Programmer-friendly interface for URL, query string, and request-body parameters.
- Stores session as well as flash cookies.

Blasteroids *(JavaScript, HTML5)* **live** | **github**

Asteroids game made with HTML5 Canvas.

- Sprite-based visual interface.
- Ship's fire function is throttled for realistic effect and added difficulty.

SKILLS

Ruby	**Rails**	**JavaScript**	**jQuery**	**Backbone.js**
HTML	**CSS**	**SQL**	**Git**	**MATLAB**

EXPERIENCE

Quantum Physics Research Group - *Dartmouth College* *(Spring 2014 - Winter 2015)*

- Explored strategies for maintaining quantum bit coherence thereby protecting quantum computers from unwanted noise, a key step for building scalable quantum computers.
- Wrote Matlab script to calculate computationally intensive integrations.
- Uncovered mistakes in established work which opened new research paths.

EDUCATION

Web Development - *App Academy* *(Summer 2015)*

- Immersive software development course with focus on web development and agile methodologies. Strong emphasis on code quality and design patterns.

BA Education - *Dartmouth College* *(Fall 2011 - Spring 2015)*

- Physics major with Engineering minor, Cum Laude
- Coursework Included: Statistical Methods in Engineering, Linear Algebra, Abstract Algebra, Differential Equations, Statistical Physics, Fourier Transforms