Philip **Larie**

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PROJECTS

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

Song lyrics and annotations website based on Rap Genius.

- Bootstraps user data on page load to avoid extra AJAX requests.
- Uses 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**

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

- Controller base class provides core functionality to render 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 to protecting quantum computers from unwanted noise, a key step for building scalable quantum computers.
- Built 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, GPA 3.76
- Coursework Included: Statistical Methods in Engineering, Linear Algebra, Abstract Algebra, Differential Equations, Statistical Physics, Fourier Transforms