Dominic Kuang

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PROJECTS   **Stumblr** *(Ruby on Rails, Backbone.js)* | live | github
Blogging and content-sharing web app inspired by Tumblr
- Optimized queries in SQL by preloading tables to improve load time and parsing of mass posts
- Dynamically re-positioned stacked DOM elements based on changing window and margin width to remove any unnecessary white space
- Integrated filepicker API in Backbone to allow users to upload files in posts of any extension type
- Filtered Backbone models in user search results based on real time input

Sunsteroid *(Javascript, HTML Canvas)* | live | github
Computer version of the classic arcade game
- Calculated the velocity of the asteroids based on the norm vector and size of the image in a set interval to constantly reposition movements in jQuery
- Displayed immersive game view animations by drawing images in canvas on asteroid impact
- Created functions to determine collisions based on the radii and distance between objects

Chess *(Ruby)* | github
Colorized console-based full-featured two-player chess game
- Constructed a multi-level class inheritance structure to DRY up code
- Designed move validation algorithms to enable full movement capabilities for different pieces

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SKILLS   Ruby On Rails, Backbone.js, HTML5, CSS, JQuery, SQL, Eclipse IDE, AJAX, Bootstrap, Java, C/C++, git

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EXPERIENCE   **Web Developer Intern,** *ticktBox*   **September 2014 - March 2015**
- Redesigned company web pages in HTML/CSS/JQuery to be dynamic and user-friendly for clients such as LionsGate, Sony, and Warner Bros.
- Conducted Q&A on ticketing platform and front/back-end of client's web pages for bugs and performance during production

Web Developer Intern, *Scripps Institute of Oceanography*   **January 2015 - March 2015**
- Improved web platform, *dataMares*, by reorganizing HTML elements and adding bootstrap CSS
- Designed and constructed a large scale database with PostgreSQL of the oceanic ecosystem along the Pacific involving relations between fisheries, users, offices, and species

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EDUCATION   **App Academy, San Francisco**   **June 2015 - September 2015**
Full-stack web development course · acceptance rate < 3%

University of California, San Diego   **September 2011 - March 2015**
B.S. General Biology, Minor Computer Science

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COURSEWORK   Web Development, Object-Oriented Data Structures, Advanced Data Structures, Mathematics for Systems Analysis, Software Engineering, Programming in Java, Applications for Databases