Jake Park

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Skills

Angular, Backbone, Javascript, JQuery, Ruby, Ruby on Rails, SQL, HTML5, CSS, Git

Projects

An (Abridged) History of World War 2   Live   Git   (Angular.js, Three.js)

- o Custom Angular directives for page layout of paragraphs and images, including modal overlays
- o Incorporated Three.js library for 3D model object display

myFacebook   Live   Git   (Backbone.js, Ruby on Rails)

- o Single page app prefetches content for quick site navigation, quick login via demo users or Twitter auth
- o Join table permits Facebook friendship model; user friendships maintained as a single database entry
- o Customized single request SQL query returns database results no matter which user initiated friendship
- o Image upload to AWS using Paperclip library

Asteroids   Live   Git   (Javascript, HTML5 Canvas)

(Modern interpretation of the classic 2D space shooter)

- o Inelastic collisions allow for fun physics-based movement
- o Artificial AI enemy rotates to track and follow player and fire projectiles
- o Objects textured with sprite maps for increased performance
- o Collision detection and resolution for all objects in scene
- o Uses vector algebra for calculation of object movement

Education

App Academy, New York, NY   2015

Full-time software development program with an acceptance rate under 5%

Columbia University, New York, NY   2003 - 2007

Bachelor of Science – Mechanical Engineering; GPA: 3.3/4.0

Experience

Steven Winter Associates, New York, NY   Energy Engineer   2011 - 2014

- o Reviewed architectural and MEP plans to determine energy efficiency opportunities
- o Developed whole-building energy simulation models
- o Analyzed results spanning more than 1000 pages of data output and produced reports
- o Presented recommendations to client stakeholders, including City and State authorities

Laszlo Bodak Engineers, New York, NY   Mechanical Engineer   2007 - 2010

- o CAD mechanical systems for mid-rise residential, commercial, and educational developments
- o Surveyed existing field conditions and incorporated real world data into updated blueprints

Interests

Multi-marathon runner; cyclist and volunteer mechanic; swing dance team member