

A. Scott Duane

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Projects

RocketRide

[Live](#) ● [GitHub](#)

App for organizing (fictional) rideshares on spacecraft of all types, built with Ruby on Rails and React.js

- Uses the Flux design pattern to manage AJAX queries, controller actions, and frontend rendering
- Implements the Cloudinary API to upload and store user profile and spacecraft photos

Langton's Ant

[Live](#) ● [GitHub](#)

A cellular automata engine, written in Javascript and using Chris Langton's 1986 behavioral rules

- Defines the various pieces of engine in a modular way, allowing for easy and efficient generalization of the original concept
- Utilizes the HTML Canvas library for clean, browser-agnostic behavior

Chess

[GitHub](#)

Built in Ruby and designed to be played in the console

- Implements the minimax algorithm with adjustable depth to create an AI opponent

Skills

Ruby

Ruby on Rails

Javascript

React

HTML/CSS

Flux

jQuery

SQL

RSpec

Java

git

R

Experience

San Diego LGBT Pride

April 2015 - July 2015

Wordpress Development Intern

Remote

- Built the Accessibility section of the San Diego LGBT Pride website, using the Wordpress platform
- Collaborated with a blind staff member to ensure that the site was robustly screen reader-friendly, exceeding the W3C Web Accessibility Standards

IXL Learning

July 2013 - January 2015

Product Analyst

San Mateo, CA

- Managed the development cycle for K-12 math practice software, from writing specifications with the analyst team to collaborating with the engineering team on implementation
- Designed new user interfaces, including a customized iPad keyboard and a sinusoidal graphing interface

Education

App Academy

August 2015 - November 2015

Full Stack Web Development Course

San Francisco, CA

University of California, San Diego

September 2008 - June 2013

PhD, Mathematics (GPA 3.93)

La Jolla, CA

Research area: Algebraic and enumerative combinatorics

Dissertation: *Pattern Matching Statistics in the Permutations S_n and the Alternating Permutations A_n for Minimally Overlapping Patterns*

Carleton College

September 2003 - June 2007

BA, Mathematics (GPA 3.56, *magna cum laude*)

