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PROJECTS

MANIFOLD | manifold.cc

Web app for task/project management and collaboration for academic research

- Monkey-patched Backbone collections to enable dynamic front end search for fields likely to be queried many times per session
- Wrote dynamic overridable autocomplete from scratch for task assignment
- Wrote user authentication using BCrypt gem with hashed and salted passwords

REGATA | regataregata.github.io

From-scratch JavaScript implementation of regular language expressions and graphical representation of their automata with Cytoscape.js

• Implemented NFA-DFA conversion, regex-DFA conversion, DFA minimization by Hopcroft's algorithm and regular language expression parsing

BRAP | austindyoung.github.io/BRAP

Original HTML5 Canvas physics game

• Generalizes the topological fundamental polygon to admit 4096 edge mappings for playing field

FRONT-STAGE | github.com/austindyoung/front-stage

jQuery plugin and Backbone Collections extension for form dynamics and front-end searching

- Prevents multiple fetches from the database per form submission
- Dynamically produces matching results and autocompletes from form input, while allowing multiple models to be staged per input
- Includes default form submission

SCALEX | github.com/austindvoung/DFA-Regex

Scala Implementation of regular language expression matching

EDUCATION

REED COLLEGE | B.A. Mathematics

May 2013 | Portland, OR

• Thesis: The Finite Sums Theorem: a Topological Approach | compactification.co

WORK FXPFRIFNCE

PRIVATE TUTOR | Math and Philosophy

2013 - 2015 | Bay Area, CA

- Developed custom extracurricular lesson plans and assignments for gifted students seeking enrichment materials
- Two students were accelerated one semester in math

INTERN | Perkins Coie | | P

Summer 2011 | San Francisco, CA

Supervisor: Michael R. Gotham, Director of Recruiting and Retention

- Collected market, industry, company and other demographic information
- Reviewed, summarized and analyzed industry trends

Github: github.com/austindyoung

LinkedIn: linkedin.com/pub/austin-young/104/2a4/291

SKILLS

Ruby

Scala

Ruby on Rails

Javascript

Backbone.js

00-design

jQuery

SQL

HTML

git

CSS

Haskell

COURSEWORK

Programming

Language Theory and

Design

Algorithms and Data

Structures

Combinatorics

Topology

Abstract Algebra