Austin Young

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PROJECTS

MANIFOLD manifold.cc | GitHub
Full-stack Ruby on Rails 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

DFA-REGEX GitHub
Scala implementation of regular language expression matching
- Implemented deterministic and nondeterministic finite automata (DFA, NFA) to evaluate string matching
- Wrote conversion methods between DFAs and regular language expressions recursive descent and shunting yard parsers for user input

BRAP http://austindyoung.github.io/BRAP | GitHub
Original HTML5 Canvas physics game
- Generalized the topological fundamental polygon to admit 4096 edge mappings for playing field

EDUCATION

REED COLLEGE B.A. Mathematics
May 2013 | Portland, OR
- Thesis: *The Finite Sums Theorem: a Topological Approach* | compactification.co

APP ACADEMY
Summer 2015 | San Francisco, CA
- Completed highly selective three-month intensive engineering course focusing on full-stack development in the context of Ruby, Ruby on Rails, SQL, Active Record, Javascript, jQuery, Backbone.js, and HTML/CSS

WORK EXPERIENCE

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, LLP
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

LINKS

Github: **github.com/austindyoung**
LinkedIn: **linkedin.com/pub/austin-young/104/2a4/291**

SKILLS

Ruby
Scala
Ruby on Rails
JavaScript
Backbone.js
OO-design
jQuery
SQL
HTML
git
CSS
Haskell

COURSEWORK

Programming Language Theory and Design

Algorithms and Data Structures

Combinatorics

Topology

Abstract Algebra