

GRANT PHELPS

FULL-STACK DEVELOPER

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Portfolio • GitHub • LinkedIn

EDUCATION

Yale University

BS Engineering Science
Mechanical, with honors

New Haven, CT

2009–2013

GPA 3.77

Senior Capstone

Built an electric stair-climbing dolly with a max load of 50lbs. Selected motor, sprockets, and chain; designed mounting plate in SolidWorks.

Programming Coursework

Mechatronics
Computer Aided Engineering
Programming for Engineers
Intermediate Programming

C, Microcontrollers
MATLAB, SolidWorks
C++, Fortran 77
Scheme (LISP)

Senior Project

Force simulations on designer particles with negative Poisson ratios using SolidWorks and MATLAB.

EXPERIENCE

Cognition IP (YCombinator w2018) | Developer & Patent Engineer | San Francisco, CA | Aug 2018–Present

- Design feature to autofill USPTO forms using MEAN stack
- Build platform to improve communication between staff attorneys and clients
- Draft patent claims and specifications to be filed with USPTO

Gartner | Editor at L2 | New York, NY | Feb 2017–Mar 2018

- Lead editor for all levels of L2 organization (7 teams, 30+ researchers)
- Edited 100+ pages of research per month for statistical accuracy and clarity
- Hosted writing workshops for junior researchers
- Developed and enforced L2 style guide for research and citations

W. W. Norton & Company | Editorial Assistant, Music | New York, NY | May 2015–Feb 2017

- Principal editor for textbook ancillaries and managing editor of music blog
- Recruited professors for peer reviews and managed editorial interns
- Contributed developmental edits to books on Ella Fitzgerald, the Beatles, and Duke Ellington
- Wrote blurbs, editorial pitches, and press releases for nonfiction books

PROJECTS & SKILLS

React + Redux | Angular | Express | Node | Ruby on Rails | PostgreSQL | npm | Webpack | Git

noteWorthy Rails, React, AWS

Personal planner inspired by Evernote

- RESTful design with CRUD resources
- Provides rich-text editing with Quill.js library
- Stores image uploads remotely with AWS S3

SIMUL8R JavaScript, HTML Canvas

Aesthetic, ever-changing particle simulation

- Traces paths of point masses as they pass through a vector field of Perlin noise
- Uses bilinear interpolation to calculate forces
- Plots up to 2,000 particles in real time

Dramamine-3D three.js

High-altitude hoop-jumper named for the pill you'll want afterward

- Torque-based first-person controls
- 3D vector calculations for collision detection
- Random hoop course generated in real time

Cal9000 Rails, React

UX exercise for calendar components with simple back end

- Custom-built calendar tool replaces browser-native date picker
- Support for events spanning multiple days, weeks, and months