Daniel Rigberg

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Experience

Independent Study at the Recurse Center — Nov 2016 to Feb 2017
- **Full-time self-guided study** — honed fundamental skills in Javascript, Node, design patterns, Python, algorithms, web sockets, P5.js, D3.js, and AWS
- **Pair programming** — paired with other Recursers on a variety of large projects in JS and Python
- **Projects:** built horoscope-generator, interactive travel blog map, personal site, and P5 canvases

Back-End Developer and Data Integrity Specialist at Nestio — Aug 2015 to Sep 2016 — Python/Django
- **Redesigned and automated data-related tasks** — wrote Python scripts and CRON jobs to verify stale data & diagnose and correct data corrupted by errors in legacy codebase
- **Test-driven development** — wrote comprehensive tests for original scripts and revised existing tests
- **Built parsers for new feeds** — wrote and tested parsers for inbound custom XML feeds
- **Wrote scripts for operations team** — built a robust codebase of report-pulling scripts so that the operations team could analyze data on short notice
- **Wrote scrapers for sales-ops team** — pulled data from real estate listings sites and company Gmail accounts
- **Maintained relationships with partner brokers** — acted as point-man for all clients with data-related concerns
- **Acted as resident Excel expert** — advised CFO and managers on efficient use of Excel

Projects

Pseudo-contextual horoscope-generator— www.horoscopegen.com — Fall 2016
- App in Node.JS & Express, with JQuery; helper scripts in Python; MongoDB; background with P5.js
- Uses birthday to determine sign; generates grammatically sound paragraphs based on JSON grammar files containing vocabulary, contextual tags, and sentence bigram probabilities; displays all entries in leaderboard; uses web sockets to keep leaderboard updating in real-time
- Interactive background displays constellations that are procedurally generated upon page load and button click

Terminal Battleship — https://github.com/drigberg/terminal_battleship — Fall 2016
- Battleship game in Python, played in Terminal
- Features AI opponent

Automated email reminder system for data entry team — Nestio — Summer 2016
- Replacement for paid Chrome extension previously used to send data for manual parsing to data entry team
- Periodically queries Django model to find send time, subject, and body
- Creates new data entry job and forwards email to data entry team
- Accompanied by helper script for bulk creation of scheduled emails, from .csv upload

Skills

Programming: Node.JS, Javascript, Python/Django, HTML/CSS, Git, P5.js, D3.js
Other related: Natural Language Processing, Statistics, Calculus, Microsoft Excel, conversational Spanish

Education

Yale University, New Haven, CT
- **Bachelor of Arts, Intensive Music Major** — concentration in composition — May 2015
- **Abraham Beekman Cox Prize winner** — awarded to the most promising and gifted composer of the junior class of Yale College — Spring 2015