

# Daniel Rigberg

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## Experience

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### Independent Study at the Recurse Center — Nov 2016 to present

- **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:** horoscope-generator, constellation generator, personal website, liars dice game, and particle animations
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### 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

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### Pseudo-contextual horoscope- and constellation- generator— [www.horoscopegen.com](http://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
- Interactive background displays constellations that are procedurally generated upon page load and button click

### Terminal Battleship — [https://github.com/drigrigberg/terminal\\_battleship](https://github.com/drigrigberg/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

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**Programming:** Node.JS, Javascript, Python/Django, Mocha, HTML/CSS, Git, P5.js, D3.js, 3D Printing and Design

**Other related:** Natural Language Processing, Statistics, Calculus, Microsoft Excel, conversational Spanish

## Education

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### 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