

Paul Angland

Software Developer

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Projects

Sep 2017 **EasySeating.**

Live: <https://easyseating.herokuapp.com/>

Repo: <https://github.com/pangland/EasySeating>

EasySeating is an Opentable-inspired single page web app made using React and the Rails framework.

- Connected searchbar input to AJAX requests so that restaurant options are rendered in real-time
- Created reusable, DRY React components to improve readability and scalability
- Utilized ActiveRecord functions and database indexing to simplify and expedite complicated searches

Sep 2017 **Exploding Numbers.**

Live: <https://pangland.github.io/Exploding-Numbers/>

Repo: <https://github.com/pangland/Exploding-Numbers>

ExplodingNumbers is a mathematical matching game that 'explodes' in difficulty the longer you take.

- Used HTML5 Canvas for rendering the game and animating all onscreen behavior
- Assigned mouse behavior to event listeners to promote easy interactivity with the game screen
- Wrote asymptotic functions to increase game difficulty over time without making the game impossible

Oct 2017 **PORM.**

Repo: <https://github.com/pangland/PORM>

PORM is an ORM inspired by ActiveRecord.

- Utilized Ruby's metaprogramming and SQL to simplify database queries
- Made use of inheritance to keep code efficient and DRY

Skills

Languages / Softwares Java, MATLAB, JavaScript, Ruby, Rails, React, Redux, jQuery, SQL, HTML, CSS, Git, Mathematica, L^AT_EX

Qualities Strong analytical skills, skilled performance optimizer, great team worker, quick learner.

Experience

May 2014 - **Laboratory for Laser Energetics**, Researcher, Rochester, NY.

Dec 2016 *Created a rigorous system for characterizing densities of plasmas that underwent the AFR diagnostic*

- Improved efficiency of comparison between synthetic and real AFR data by one order of magnitude
- Created a custom simulated annealing algorithm that optimized complex multiparameter data profiles
- Wrote an automated method for calculating the uncertainty of statistical AFR error
- Proved the existence of and quantified the added uncertainty from degenerate density solutions
- Automated and combined uncertainty measurements for accurate and easy uncertainty calculations
- Published research on my work in the Review of Scientific Instruments Journal

Education

July 2017 - **App Academy**, New York, NY.

- Sep 2017
 - Rigorous 1000-hour software development curriculum with < 3% acceptance rate
 - Topics include: TDD, scalability, algorithms, OOP, coding style, REST, security, single-page apps, and web development best practices

2011 - 2015 **University of Rochester**, Rochester, NY.

- Bachelor of Science in Physics.
- Winner of 2015 Professor's Choice Award for Best Natural Science Research