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

Skills

Languages / Softwares: Java, MATLAB, JavaScript, Ruby, Rails, React, Redux, jQuery, SQL, HTML, CSS, Git, Mathematica, LaTeX

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

Experience

Oct 2015 - Dec 2016 **Nesco Resource**, *Contractor to Laboratory for Laser Energetics*, Rochester, NY.
Contracted to finish creating a method for analyzing Angular Filter Refractometry (AFR) data.
- 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
- Made code more user-friendly by enabling user to queue any combination of optimizations and error analyses on different data collections in advance

May 2014 – Jun 2015 **Laboratory for Laser Energetics**, *Engineer*, Rochester, NY.
Worked to create a method to characterize the density of plasmas that underwent the AFR diagnostic.
- Created a custom simulated annealing algorithm that optimized complex multiparameter data profiles
- Improved efficiency of comparison between synthetic and real AFR data by one order of magnitude
- Simplified future error calculations by proving that the covariance of parameters was negligible

Education

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