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Ben Rowles

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TECHNICAL SKILLS:

Strong: JavaScript, Babel/ES6, CoffeeScript, Node.js, Express, jQuery, Famous, Git, HTML, CSS

Experienced: AngularJS, WebGL, Gulp, Mocha, Jasmine, Tap/Tape, D3, MongoDB, SQL, C, Photoshop

EXPERIENCE:

Famous Industries | famous.org

San Francisco, CA

2014 - 2015

A JavaScript framework for performant user interfaces and animations for both DOM and WebGL elements

- As a platform engineer, designed, implemented, and tested a fully featured 3D physics engine
- Implemented calculations for collision detection and resolution, as well as various types of forces and constraints
- Developed proprietary gesture library for intuitive multi-touch solutions
- Investigated novel physics-based user interfaces and animations for mobile and desktop web applications
- Contributed core scene graph transformation logic and optimizations

PREVIOUS PROJECTS:

Tate Art Explorer | tateartexplorer.azurewebsites.net

San Francisco, CA

2014

A tool for social exploration of the Tate's archives, featuring art recommendations and smart search

- Designed a custom autocomplete search engine for real-time search suggestions
- Optimized algorithms and data structures for efficient and seamless search performance
- Implemented the search UI with AngularJS and jQuery; maintained RESTful Node + Express API endpoints

GitHub Scout | githubscout.azurewebsites.net

2014

A web app for the aggregation and visualization of various GitHub statistics, organized by language and by user

- Automated a comprehensive data mining system providing information inaccessible via conventional GitHub searches
- Utilized tailored solutions including HTML scraping, calls to the GitHub API, and SQL queries on the GitHub Archive
- Built a Node back-end with use of the popular modules Express, Async, cheerio, and superagent

Gibber | gibber.azurewebsites.net

2014

An intelligent random Tweet generator emulating the results of a user supplied search

- Created a custom text analysis and probabilistic text generation system to supply Tweets
 - Optimized data structures and client-server division of labor for effective user experience
 - Worked across the stack, designing the UI and a robust back-end with server-to-server authentication to Twitter
 - Planned and executed alone the full scope of the project in a two day period
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EDUCATION:

Hack Reactor - *Software engineering immersive*

San Francisco, CA

2014

The University of Chicago

Chicago, IL

BS, Mathematics - General Honors

2014

Relevant coursework: Computer Systems; Theory of Algorithms; Discrete Mathematics; Statistical Models and Methods; Abstract Algebra; Ordinary and Partial Differential Equations; Mathematical Methods in Physics