

NAVANEET RAMABADRAN

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[LinkedIn](#)

[Github](#)

SKILLS

Languages: JavaScript, Ruby, Java, Python, SQL, HTML5, CSS3, C++, MATLAB, Mathematica, VBA

Technologies: React.js, Redux, Express.js, Node.js, jQuery, Rails, Webpack, Canvas, Git, Material-UI, MongoDB, PostgreSQL

Data Analysis: Six Sigma Green Belt (6 σ), Design of Experiment (DOE), Pareto Analysis

PROJECTS

FlexJobs (*MongoDB, Express.js, React.js, Node.js, D3.js, Material-UI, HTML5 Canvas, CSS3*)

[Live](#) | [GitHub](#)

Job portal that matches software developers with job openings by parsing for keywords and keyphrases in resumes and listings

- Integrated GitHub's Jobs API to pull up-to-date data exclusively regarding software engineering job listings
- Formulated an algorithm employing Dice Coefficient string comparison of resume and listings to order listings for users' personal profiles by match percentage
- Incorporated React-D3-Cloud NPM package to populate HTML5 Canvas cloud maps with key-phrases analysis of listings generated from Retext Natural Language Processor, saving users on average -2.6 min/application
- Leveraged Material-UI to integrate React components, reducing turn-around time by an estimated 7 hours and simultaneously implementing a subjectively more beautiful design language

Clone-ify (*PostgreSQL, Ruby on Rails, React, Redux, Amazon Web Services, HTML5, CSS3*)

[Live](#) / [GitHub](#)

Feature-rich clone of Spotify Web Player with user profiles, artists, albums, playlists and seed music data hosted in Amazon Web Services

- Integrated Amazon Web Services API to host mp3 and jpg seed data for songs and cover art
- Built complete music web player with vanilla JavaScript to enable continuous play
- Reduced audio frequency buffer overload and significantly improved frontend rendering latency by over 80% based on Chrome Network tab metrics
- Implemented search feature with ActiveRecord queries of Rails backend to find songs, albums and artist

Pinball (*Vanilla JavaScript, HTML5 Canvas, CSS3*)

[Live](#) | [GitHub](#)

Beautiful, minimalist implementation of the classic arcade game Pinball

- Employed custom physics and collision logic with constants for elasticity, friction and gravity
- Created smooth animations and transitions with Delta Timing
- Utilized DOM manipulation to dynamically access and update the content, structure and style of webpage to create interactive interface for user

EXPERIENCE

Engineer - QuSwami

2017 - Present

- Streamlined technical data analysis workflow with Excel Macros and VBA Scripts for reduced analysis time
- Automated chemical deposition of device with programmable robot arm and device fabrication machinery to increase throughput
- Initiated and managed new and existing partnerships with key vendors and technology collaborators
- Developed deposition processes technology for final process step in fabrication of QuSwami's novel solid-state energy conversion device

Electrochemical Engineer - Innovation Economy Laboratory

2015 - 2017

- Formulated Design of Experiments (DOEs) for new material formulations, rapid annealing, deposition workflows and Li-Ion coin cell builds
- Reduced user negligence by 90% with revitalized Training Procedure, overhauled Standard Operating Procedures and online scheduling system to track user usage of SEM Microscope
- Organized and instructed a 10+ group of undergraduate researchers in biweekly group meetings

EDUCATION

App Academy - 1000-hr immersive full-stack software engineering course (2018-2019)

San Jose State University - MS - Engineering - Battery Technologies (2017-2019)

University California, Riverside - Material Science and Engineering (2015-2017)

University California, Santa Barbara - BS - Chemical Engineering (2011-2015)