


Arvind Ravi

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PROJECTS

Vibes (Ruby on Rails, React.js)

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

A single page music management application inspired by [SoundCloud](#)

- Developed universal navigation bar to allow for easy song searching and uploading to the cloud
- Built features that allow users to manage a profile and playlist of liked songs
- Used Amazon S3 to store all uploaded songs and image files

MazeCraze (JavaScript, jQuery)

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

An algorithm visualization tool for solving mazes

- Programmed visualizations for the breadth-first search, depth-first search, and A* algorithms
- Enabled users to select maze endpoints, dimensions, and tree traversal solution

PourOverJS (MongoDB, Express.js, React.js, Node.js)

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

A JavaScript profiler and code editor developed using the Scrum methodology (Agile framework)

- Calculated performance metrics for the submitted code by inspecting the abstract syntax tree
- Developed stack frame visualization to step through program execution
- Enabled users to save code snippets to the database

SKILLS

- Programming Languages: JavaScript, React.js, React Native, Node.js, Express.js, MongoDB, Redux, Jest, Enzyme, Python, pandas, Java, Ruby, Ruby on Rails, SQL, PostgreSQL, Git, HTML, CSS, VBA
- Applications: Amazon S3, Microsoft Visio, Dynamics CRM, OSIsoft PI System
- Languages: Fluent in Tamil

EXPERIENCE

U.S. Securities and Exchange Commission (Contractor), New York, NY

December 2017 – Present

Software Engineer, Quantitative Analytics Unit

- Built several interactive reports using React, Highcharts, and vis.js to help pinpoint instances of insider trading
- Used the pandas library to parse and manipulate DataFrames from the backend before sending the data to the appropriate widget on the frontend
- Recorded user activity in PostgreSQL to better understand how the application was being used and to lower query latency
- Wrote unit and end-to-end tests to verify that the application performed as expected
- Documented the functionality and proper use of each report in the application

OSIsoft, LLC, San Leandro, CA

July 2015 – May 2017

Customer Support Engineer

- Field Service: Installed, configured, and audited PI software at customer sites and taught classes on product functionality, both remotely and onsite
- Automated the generation of field service work reports by coding a macro that pulls in relevant job information from various databases, saving each engineer an hour per report written
- Technical Support: Remotely debugged PI software and answered questions about product functionality
- Expanded internal and external knowledge base wiki by documenting customers' technical issues and network architecture

EDUCATION

App Academy, San Francisco, CA

May 2017 – August 2017

1200-hour full stack web development course, acceptance rate < 3%

University of Virginia, Charlottesville, Virginia

August 2011 – May 2015

Bachelor of Science in Chemical Engineering; Minor in Engineering Business

GPA: 3.5/4.0