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, Node.js, Express.js, MongoDB, jQuery, Redux, Python, pandas, Flask, Ruby, Ruby on Rails, RSpec, SQL, PostgreSQL, Git, HTML, CSS, VBA, MATLAB
- Applications: Amazon Web Services, Microsoft Visio, Dynamics CRM, OSIsoft PI System
- Languages: Fluent in Tamil

EXPERIENCE

U.S. Securities and Exchange Commission, New York, NY   December 2017 – Present

Software Engineer
- Built several interactive reports using React and Highcharts to help pinpoint instances of insider trading
- Used pandas to parse and manipulate DataFrames from the backend before sending the data to the appropriate Highchart widget on the frontend

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 backend 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   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