


# Arvind Ravi

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## PROJECTS

### Vibes (React/Redux, Ruby on Rails)

[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)

[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

## SKILLS

- Programming Languages: JavaScript, React, React Native, Node, Express, Jest, Enzyme, Python, Ruby on Rails, SQL, Git, HTML, CSS, VBA
- Applications: Amazon S3, MongoDB, PostgreSQL, OSIsoft PI System
- Languages: Fluent in Tamil

## EXPERIENCE

### JPMorgan Chase, New York, NY

December 2018 – Present

Frontend Software Engineer, Fixed Income Trading

- Built an e-trading application for repo traders using React/Redux and ag-Grid
- Allowed traders to view the list of securities available on the market, place orders, and monitor trades
- Wrote unit tests to verify that the business logic used in grid and order entry calculations was correct
- Communicated with traders to understand their use cases in order to tweak the application appropriately

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

December 2017 – December 2018

Full Stack 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