

# MARIA VAGHANI

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## Skills

- Ruby on Rails, JavaScript, React, Redux, HTML, CSS, Sass, Mongoose, MongoDB, Node.js, Express.js, jQuery
- RSpec, Object-Oriented Programming, Google Maps API, AWS
- Python, Pandas, Matplotlib, Sklearn, Seaborn, SQL, PostgreSQL, Recommendation Systems, Deep Learning
- Machine Learning: Regression, Decision Tree, Random Forest, GBM, KNN, PCA, Clustering, NLP, ETL Pipeline

## Recent Projects

**CIPHER ( [Github](#) | [Live](#) )** - Node.js, Express, React, Redux, JavaScript, HTML5, CSS3, MongoDB, Mongoose **2021**

- Implemented a backend algorithm that manages user notifications and group invites
- Implemented User Auth by encrypting user details via the JSON Webtoken library to be sent over HTTP using Axios to be decrypted via the JWT-Decode library on the frontend
- Wrote model level validations to check for inclusion of password/email upon login using the Validator.js library
- Effectively collaborated and led a team of four utilizing Git workflow, protected main branch, creating and approving pull requests, as well as managing merge conflicts
- Leveraged PeerJS and SocketIO library to implement Video Conference feature

**Docuflx ( [Github](#) | [Live](#) )** - Ruby on Rails, React, Redux, JavaScript, HTML5, CSS3, Postgres, Webpack, AWS **2021**

- Designed a real-time search for movie titles that pulls results from database using custom SQL queries
- Implemented multiple CRUD functionality, including creating watch lists and watch profiles, updating user information
- Used AWS to store media files, allowing for better scalability of the app
- Utilized Ajax to send requests to database and Rails Active Record to manage response

**Who Stole the Apple ( [Github](#) | [Live](#) )** - JavaScript **2021**

- Implemented HTML canvas and requestAnimationFrame to dynamically generate animation of the game
- Implemented interactive coding environment with drag and drop on canvas and a snap to grid feature and ability to snap to the initial position on a drop to a wrong location.

**Customer Segmentation of Starbucks Customers ( [Github](#) | [Report Article](#) )** - Python **2021**

- Analyzed and removed falsely classified offer completion status based on customer purchase behavior
- Implemented Machine Learning algorithm to accurately predict how a customer would behave in response to different kinds of offers sent through Starbucks app.

## Work Experience

**Blair Mui Dowd Architects - Junior Architect** **03/2019-06/2021**

- Automated generation of construction document reports using Python, Numpy, Pandas, and OpenPyXL, that resulted in reducing 95% of time spent on the task and eliminating the possibility of human error in data transfer
- Coordinated construction of major hospital renovation with a budget of \$11million, reviewed construction administration documents
- Developed a three-phase master plan and schematic design set for a renovation project of three MRI magnets replacement, including schematic design of an MRI-assisted Operating Room
- Developed an object-oriented Revit system to create a responsive model to efficiently generate construction drawings to adapt to changing client requirements and requests

## Education

**Computer Science - App Academy** **2021**

- Software engineering course with < 3% acceptance rate. Studied TDD, algorithms, OOP, REST, single-page apps, security & more

**Data Scientist Nanodegree - Udacity** **2021**

**Bachelor of Architecture with minor in Civil Engineering - Mississippi State University (MSU)** **2014-2018**