Rithik Gavvala
Software Engineer

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US Citizen

Education

Georgia Institute of Technology
Bachelor of Science, Honors
Graduation December 2021
Major Computer Science
Concentration Artificial Intelligence and Devices

Coursework
Computer Organization
Data Structures and Algorithms
Design and Analysis of Algorithms
Digital Design Laboratory
Discrete Mathematics
Intro to Artificial Intelligence
Intro to Object Oriented Programming
Linear Algebra
Objects and Design
Robotics and Perception
Systems and Networks

Languages

Java
JavaScript
Python
HTML/CSS
Swift
Kotlin
SQL
C

Frameworks

React.js
Express.js
Node.js
React Native
SwiftUI
Flask
Firebase
MongoDB

Experience

Software Engineering Intern at American Express   June 2020 – August 2020

- Finetuned and engineered an unsupervised learning model that uses K-means clustering for labeling and classifying personal identification documents such as bank statements, passports, tax documents, etc.
- Utilized supervised learning to develop a BERT-based ML model to classify OCR-scanned text to indicate document type based on a pre-existing set of labels.
- Planned and implemented a wrapper Python class to generate synthetic data for creating a training set using Pandas that accounted for common errors in OCR-scanned text and labeled documents.

Software Engineering Intern at Florida Blue   May 2019 – August 2019

- Created and designed a user interface in React.js for identifying discrepancies in member enrollment health insurance data throughout the transaction pipeline utilizing Redux for state management.
- Administered IBM DB2 and MongoDB databases and added support via Java and Node.js for discrepancy monitoring during thousands of transactions.
- Developed a REST API using Node.js and Express.js for member data analytics and custom data querying.

Software Engineering Intern at Blink! Photogroup.   May 2018 – August 2018

- Developed a front-end user interface for organizing and archiving images for a client. Created a Java program to extract the EXIF data from .jpeg files and import them into a database.
- Leveraged Java Database Connectivity (JDBC) frameworks to create a database that organized EXIF metadata from .jpeg files.

Projects

StaffTrak   March 2020 – August 2020

- Invented a remote clinical symptom monitoring application using Twilio API for SMS messaging and scheduled push notifications for Stanford and Sutter Health Hospitals.
- Designed and wireframed a user-interface in Figma and implemented the user interface in React.js and developed a robust REST API for modularity in Node.js and Express.js.

LiveStocks   May 2019 – July 2019

- Engineered and designed a full-stack virtual stock trading web application using React.js, Node.js, Socket.io, Express.js, and MongoDB.
- Used React.js to create an intuitive front-end user interface and utilized Redux for state management within the application for maintaining user data. Took advantage of Socket.io to present real time stock information to the user.
- Wrote a REST API using Node.js and Express.js for creating, reading, updating, and deleting user login and stock data from a MongoDB database.

FinMap   January 2019

- Guided the front-end effort for data generation and using Python, MicroStrategy Software, and CapitalOne APIs for a web application that creates a heat map that displays geotagged customer transactions to determine growing retail areas in a city
- Implemented a companion consumer-facing Android application that allows users to find restaurants based on average prices spent at a certain location and within a radius specified by a user