Rishi Chillara

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY   Atlanta, GA
B.S in Computational Media (Computer Science + Graphics)   Expected: Spring 2023
Coursework: Data Structures and Algorithms, Discrete Math, Programming in C,
Object-Oriented Programming (Java)

Transferred from Purdue University (B.S. in Computer Science) GPA: 3.83   Fall 2019 - Spring 2020

SKILLS

- **Programming Languages/Tools:** Python, Java, C, HTML, CSS, JavaScript , LaTeX, Firebase, GIT
- **Design:** Adobe Photoshop, Illustrator, Premiere, After Effects, Lightroom, XD, Sketch

EXPERIENCE

PRONTO AI   San Francisco, CA
Software Engineering Intern   Summer 2020
- Created **Data Mining Pipeline** to improve detections of pedestrians/objects for self driving trucks
- Parsed video frames from truck camera and ran **Yolact**, **MaskRCNN**, **DETR** object detection models and compared results to in-truck **Yolov3** object detection to discover discrepancies with **92%** accuracy
- Worked with frameworks such as **Keras**, **Pytorch**, and **Tensorflow** to preprocess images and post-process detections into COCO normalized form
- Developed filtering script to efficiently compare and display differences in detections visually between all models through **IOU bounding box comparison**

RIFFITI   Sunnyvale, CA
Junior Design Intern   Feb 2017 - Aug 2018
- Worked to create multiple responsive app wire frames in **Photoshop** and **Sketch**
- Developed IOS app front end utilizing **UIKit** Framework and **Xcode** to visualize prototypes
- Conducted **Primary Market Research** and A|B testing to study user interactions with the app
- Recruited High School Ambassadors, increased app membership by **8%**

MISSIONEDU   Fremont, CA
Co-founder   May 2016 - Aug 2019
- Founded nonprofit aimed towards providing free tutoring to low-income students
- Managed over **60 tutors/410 students**; created over **4000 volunteer hours**
- Partnered with school district and library to organize weekly sessions in **three locations**
- Built a pairing system in **Swift** to match tutors and students based on subject, learning style, and grade

PROJECTS

FACEBOOK CHATBOT   Aug 2020
- Created chatbot in **Python** with a **team of 8** to assist in group chats with various call functions
- Utilized **fbchat API** to communicate with users and deployed through **AWS Lambda**
- Developed **custom CI/CD pipeline** with **Github Webhooks** and **Flask** to update requirements and deploy new releases
- Stored information per user in **Firebase** to ensure scalability and created **automatic garbage disposal** to prevent wasted space [**CODE**]

AI VIDEO TITLE GENERATOR   Mar 2020
- Created a video title generator using a **Recurrent Neural Network** to create unique titles off previous results
- Built-in **Python** and trained on a corpus of 9000 video titles scrapped from Youtube using **Youtube API**
- Built off of **textgenrnn**, to create a character by **character generation model**, trained on **Google Colab** [**CODE**]

SQUAD FINDER   Dec 2019
- Web App to find the closest meeting point between a group of friends
- Utilized **socket.io** for live location updating and **Firebase** to store user data and **Manhattan distance calculations**
- Created Server Side in **Node.JS** with Firebase as a **persistence layer** for faster lookup and indexing [**CODE**]

SAT SCORE PREDICTION BOT   Dec 2018
- Built a Reddit Bot in **Python** used **>3300** times that predicted students score based on the estimated number of questions wrong
- Developed using Reddit **PRAW API** to manage login, credentials, and messages
- Utilized **Beautiful Soup** to scrape public score databases to ensure accuracy in lieu of a public API [**CODE**]