

Rishi Chillara

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

B.S in Computer Science

Focus in Human Computer Interaction and Artificial Intelligence

Minor in Economics

Relevant Coursework: Data Structures, Analysis of Algorithms, Intro to AI, Objects and Design, Computer Architecture, Discrete Math, Object Oriented Programming (Java)

Atlanta, GA

Expected: May 2023

GPA: 4.00/4.00

EXPERIENCE

GOOGLE

Software Engineering (STEP) Intern

Mountain View, CA

Summer 2021

- Designed an internal tool to correct errors in categorization and keep data consistent through **multiple update cycles**
- Refactored app categorization pipeline to **reduce write workload** to Spanner Database by **92%**
- Worked to Prune Database from inaccurate predictions through **Mutation Pools** and utilizing the **Spanner and Flume APIs**
- Implemented a custom **Proto Comparator** to determine Category differences in a database of **500k+ entries**

PRONTO AI

Software Engineering Intern

San Francisco, CA

Summer 2020

- Created **Data Mining Pipeline** to improve detections of pedestrians/objects for self driving trucks
- Discovered discrepancies between in- truck **Yolov3** object detection and **Yolact, MaskRCNN, DETR** object detection models with **92%** accuracy
- Worked **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

Product Intern

Sunnyvale, CA

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
- Measured **cohort retention** and worked with CEO to discuss methods to **create usage habits**

SKILLS

- **Programming Languages/Tools:** Python, Java, C, HTML, CSS, JavaScript, Firebase, Spanner, Flume, GIT
- **Design:** Figma, Tableau, Adobe Photoshop, Illustrator, Premiere, After Effects, Lightroom, XD, Sketch
- **Qualitative Experience:** Agile, Scrum, Stakeholder Research, Competitive Analysis, Split Testing, Primary Market Research

PROJECTS

FACEBOOK CHATBOT

Mar 2021

- 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]