

MAYANK SAILESH RAO

PROFILE

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Hello, I'm Mayank and I'm Software Developer, Data Engineer and Fullstack Developer. I love making apps and improving accessibility for people!



<https://github.com/MayoSR>



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EDUCATION

July, 2014– March, 2016

Senior High School, PCM, with elective in Computers
DPS BANAGLORE, SOUTH

- Graduated with 92.66%, 95% PCM score

Aug, 2016 – July, 2020

Bachelor of Technology, Computer Science
PES UNIVERSITY

- Graduated with a CGPA of 7.95
- Major GPA 8.14



EXPERIENCES

Jan, 2020– Present

Publicis Sapient

ASSOCIATE SOFTWARE DEVELOPER L2

- Created the Rule Engine framework and highly available microservice which services ~15-16million requests a day, with a latency of under 100ms.
- Created and deployed said microservice on a daily schedule, with a pipeline that moves around 200GB worth of data a day, consisting of around 2-3 billion rows of data.
- Wrote a Pub/Sub terraform wrapper to rapidly transmit data between different cloud service platforms.

April, 2019– July, 2019

Zinka Logistics, BlackBuck

SOFTWARE DEVELOPER INTERN

- Wrote a Java package to get GPS data and convert them to a parsable format for storing or processing
- Setup the ticket system, using Prometheus message queue and Zendesk ticket system
- Wrote multiple APIs using SpringBoot



PROGRAMMING

- Python
- Java
- C/C++
- JavaScript
- NodeJs/Express
- PHP
- HTML/ CSS
- Bash



WEB & UI

- React w/ Redux, Next
- Flask
- Angular
- Svelte
- Spring
- Flutter
- GraphQL
- SocketIO
- jQuery
- Material UI /
- TailwindCSS /
- Chakra UI /
- Bootstrap



DATABASES

- H2 w/ Hibernate ORM
- MySQL
- MongoDB
- FireBase
- Redis
- DynamoDB
- PostgreSQL
- Big Query



BIG DATA, MACHINE LEARNING & DATA SCIENCE

- SkLearn
- Keras/Tensorflow
- OpenCV
- NLTK
- Apache Hadoop
- Apache Kafka
- Apache Spark
- numpy



DEVOPS, MICROSERVICES & CLOUD

- AWS / GCP /
- Netlify / Heroku
- Linux
- Docker
- Kubernetes
- Jenkins
- Netflix OSS



TESTING, AUTOMATION & VERSION CONTROL

- Jmeter
- Sonar
- Mockito
- Junit
- Cucumber
- Pytest
- Gatling
- Locust
- Selenium Web Driver
- Postman
- Git
- Apache Airflow



PROJECTS



HTML WIREFRAME CONVERTER

- Converts hand-drawn images into a website
- Images are pre-processed using OpenCV and contour and boundary detection for cropping
- Uses Support Vector Machines (SVM) to analyze drawn components and then renders the corresponding HTML component dynamically



DETECTING SIMILAR QUESTIONS IN A QUESTION BANK

- Consists of two methods : One using a custom algorithm called iterative DBSCAN with Google Wordnet, and the other uses N-gram similarity
- Capable of working across multiple languages



STORY GENERATOR

- Consists of two methods : One using character level RNN with LSTM cells and the other using a Bi-Directional RNN and Doc2vec to generate content from pre-existing data



DOCKER OCHESTRATOR

- A Python program that monitors the health of Docker containers and kills and re-boots dead containers
- It also performs auto-scaling based on request count and has the ability to scale down when not in use.



PROGRAMMING ANALYSIS & RECOMMENDER

- A Social Network approach to analyzing similar programming languages as well as recommending users as potential partners based on programming languages built on StackOverflow user data



PREDICTING FUTURE IPL SCORES USING BIG DATA

- Using all IPL ball data until today and the relevant performances of each player, along with Spark MLlib and Hadoop, we wrote a script to generate a possible scoresheet for the following season



AIR PEN

- A device made using Raspberry Pi, PiCam, Ultrasonic sensor, along with an LED pen which would be detected by the PiCam
- Code detected the moving LED as a point in space, and rendered the corresponding inverted strokes onto a screen



TEACHING AND CLUBS

Jan, 2020– May, 2020

PES University

TEACHING ASSISTANT

- Conducted sessions for a few hours a week for students
- Doubt clarification for a few hours every weekend along with forum moderation
- Discussing assignments and topics for the course with the professor.

Nov, 2018 – April, 2019

PES University

PESU I/O

- Worked as a UI developer for a few web related projects
- Guided a small team that was a part of the main team with development help

Jun, 2018 – Nov, 2018

PES University

ISFCR WEB DEVELOPMENT INTERNSHIP

- Developed a website for department of Cyber Security for our university

Jun, 2017 – Aug, 2017

PES University

ORDELL UGO

- Data Science and Machine Learning bootcamp



PERSONAL ACHIEVEMENTS

- India top #5 for Red Bull Basement University hackathon pitch
- Top 10% of programmers on Hackerearth platform in 2017
- Python joint #1 on Hackerrank for completion of all programming challenges
- #3 out of 64 teams, India South Zone Soccer tournament