Rishabh Arya

IIT Bombay

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EDUCATION

Indian Institute of Technology, Bombay

Mumbai, India

B. Tech, Civil Engineering

2018-Present

Pursuing minor in AI and Data Science

WORK EXPERIENCE

Mebigo Labs Pvt. Ltd.

Remote

Backend Development Intern

[Jan '21-Present]

- o Automated the process of Invoice generation, made functions in Django framework to interact with database
- Enabled automatic exportation of cluvio dashboard from email to google sheets using Python libraries

Greatfour systems Pvt. Ltd.

Hyderabad, India

Research and Development Intern

December 2019

- o Automated the Edge Detection and Length Measurement in images using Python pacakages OpenCV & NumPy
- o Enabled automatic detection of tables from PDFs using Python libraries such as Tabula, Excalibur, Camelot
- Designed functionalities such as comparison for pixels, template matching of images for the harmony, a software platform that aids companies in the complete process of drug development

Kasuka Consulting Pvt. Ltd.

Remote

Web Development Intern

Summer 2020

- Designed and developed the main website for the company from scratch using HTML5, CSS3 and JavaScript
- Implemented Bootstrap classes and Jquery animations to improve the UI/UX of the website
- Deployed the website on Google cloud platform ensuring a secured HTTPS connection

Remote Freelancing Summer 2020 Web Development

- Developed a static website for a UK based Surgeon for his private practice which displays his research & other details o Designed the web page using Jekyll framework and improve the design to enhance the overall user experience
- o Added multiple pages to the website such as publications, blog page, contact page

TECHNICAL PROJECTS

Resume Verification Portal [Portal]

IIT. Bombay

Institute Developers' Community, IIT Bombay

[Jul '20- Sep '20]

- Automated the process of resume verification that were done via mails by integrating all service in one portal
- o Planned and structured the functioning, data collection and features of the resume verification portal to improve student experience during resume verification
- Developed the portal using Angular, made APIs in Node.js to interact with the database (MySQL)

Gaming Portal [Portal]

IIT, Bombay

Institute Developers' Community, IIT Bombay

[Oct '20- Nov '20]

- o Designed and developed a gaming portal for the students to get together and play in a centarlized way
- Planned and structured the functioning, data collection and features of the gaming portal to improve student experience during gaming at the portal
- Used HTML, CSS, JavaScript to develop games functionality and NodeJS framework as a backend

Iris Recognition | Digital Image Processing [Code]

IIT, Bombay

Course Project, Prof. Ajit Rajwade

[Nov '20- Dec '20]

- Designed an Iris recognition algorithm using phase components in 2D DFTs of given images
- Preprocessed images using iris localization and normalization techniques to remove irrelevant parts
- Evaluated matching score using BLPOC function and identified genuine and impostor attempts

Smart UI | Techfest IIT Bombay [Code]

Hacathon Project [Oct '20- Nov '20]

- o Developed a web application for generating JSON and HTML files from screenshot of a wireframe
- o Utilised Streamlit library to make an interactive web interface for uploading & downloading files
- Rendered JSON output containing attributes into static HTML template using Yattag library

Instibuddy [Code]

IIT, Bombay

IIT, Bombay

Seasons Of Code, Web and Coding Club

[Apr '20- Jun '20]

- o Ideated upon an institute contact phone book and personalised FB feed app working in a team of 5 members
- o Planned and structured the functioning, data collection and features of the app instibuddy to improve experience
- Developed a cross-platform app using lonic (Angular), made REST APIs in Django to interact with the backend,
 Web Scraping for data collection & FB page-plugin for personalised FB feed

Pen Scanner [Code]

IIT, Bombay

Institute Technical Summer Project, IIT Bombay

[May '19- Jul '19]

- Ideated and designed a pen sized scanner that scans handwritten documents and then converts them into text documents that can be saved and shared digitally
- o Applied neural networks to design machine learning model that identifies text from images
- o Trained an alphabet recognition network using Tesseract & OpenCV to achieve an accuracy of 60%

Computer Vision and Image Processing [Report]

IIT, Bombay

Summer Of Science, IIT Bombay

[May '19- Jul '19]

- Mastered various techniques of Computer Vision such as segmentation, feature detection, feature-based alignment,
 Object detection and denoising
- o Learned the basics of Deep learning to implement convolutional neural networks for object detection
- Familiarized with Python image processing libraries such as TensorFlow, OpenCV and Pillow

POSITIONS OF RESPONSIBILITY

Project Lead

IIT Bombay

Institute Developers' Community | IIT Bombay [Website]

[Apr '20 - present]

- Leading a team of student developers as a part of one of the biggest institute Developers' Community in India, responsible
 for the design and development of projects for the institute
- o Mentored developers for writing maintainable production quality code & performing deployments
- o Initiated the development of the Community's website to increase its outreach and impact

Web Coordinator

IIT Bombay

Techfest | IIT Bombay [Website]

[Apr '19 - Dec '19]

- o Leaded a team of 10+ organizers in developing Techfest official website hitting 4.7 million annually
- Ideated & developed Robowars betting platform for International Robowars using Laravel framework

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IIT Bombay

Web and Coding Club | IIT Bombay [Website]

[Apr '19 - Mar '20]

- Coordinated events of one of the largest programming clubs in India and aimed at inspiring students to take up programming to instill a hobbyist programming culture in the institute
- Guided 100+ first year students in making their first app using MIT scratch and conducted Git workshop to introduce students to the basics of programming and version control

Web Secretary

IIT Bombay
[Aug '18- Apr '19]

Hostel 15 | IIT Bombay [Website]

- o Revamped the hostel website from scratch used for various activities such as complaints & events
- o Implemented static features like photo gallery, timetable & a news section using HTML & CSS
- o Incorporated JavaScript & PHP to it make it dynamic and include features like complaint form

ACHIEVEMENTS & AWARDS

- Achieved 3rd position in Site-developer competition conducted by Techfest, IIT Bombay
- o Awarded the **Best office bearer**(1 0f 1000) for the remarkable contribution to the hostel

[2020] [2019]

- Won Special Mention in a programming competition held by Web and Coding Club which included building
 a game on the scratch programming language in a team of 3 students
- o Ranked 17th in Rajasthan in 10th class out of 0.17 million candidates, conducted by RBSE

[2015]

TECHNICAL SKILLS

Programming Languages Softwares/Frameworks

C, C++, R, Python, JavaScript, MATLAB, HTML, CSS Git/GitHub, Django, Jekyll, Bootstrap, Angular, PHP, Google Cloud Platform, Firebase, AutoCAD, MATLAB, Octave, LATEX

EXTRACURRICULAR ACTIVITIES

 Designed and fabricated a Remote Controlled Plane in a competition organized by Aeromodelling Club, IIT Bombay and learned about its flight controls and stability [2019]

Successfully completed 80 hours of community service as a volunteer of NSS, IIT Bombay. [2019]

Designed a Bluetooth controlled bot that can be maneuvered through an android app [2018]

Created videos in vernacular language for Youtube channel Open Learning Initiative(OLI-NSS, IIT Bombay)
 which has 100k+ subscribers and helps the underprivileged students in remote areas

COURSES UNDERTAKEN

Mathematics Calculus, Linear algebra, Ordinary differential equation, Numerical Methods

Computer Science Computer Programming and Utilization, Digital Image Processing, Data structures and

algorithms, Advance Satellite Image Processing

Others ML for Remote Sensing-I, Electrical and Electronics Circuits, Economics