

# Rishabh Arya

IIT Bombay

🌐 Rishabh Arya

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## EDUCATION

**Indian Institute of Technology, Bombay**

*B.Tech, Civil Engineering*

Pursuing minor in AI and Data Science

**Mumbai, India**

*2018-Present*

## WORK EXPERIENCE

**Greatfour systems Pvt. Ltd.**

*Research and Development Intern*

**Hyderabad, India**

*December 2019*

- Automated the **Edge Detection** and Length Measurement in images using Python packages **OpenCV & NumPy**
- 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.**

*Web Development Intern*

**Remote**

*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

**Freelancing**

*Web Development*

**Remote**

*Summer 2020*

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

## TECHNICAL PROJECTS

**Resume Verification Portal [Portal]**

*Institute Developers' Community, IIT Bombay*

**IIT, Bombay**

*[Apr '20- Jun '20]*

- **Automated** the old process of resume verification that were done via mails by integrating all service in one portal
- 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**)

**Instibuddy [Code]**

*Seasons Of Code , Web and Coding Club*

**IIT, Bombay**

*[Apr '20- Jun '20]*

- **Ideated** upon an institute contact phone book and personalised **FB feed** app working in a team of 5 members
- Planned and structured the **functioning, data collection and features** of the app instibuddy to improve experience
- Developed a cross-platform app using **Ionic (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]**

*Institute Technical Summer Project, IIT Bombay*

**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
- Applied **neural networks** to design machine learning model that identifies text from images
- Trained an alphabet recognition network using **Tesseract & OpenCV** to achieve an accuracy of 60%

**Computer Vision and Image Processing [Report]**

*Summer Of Science, IIT Bombay*

**IIT, Bombay**

*[May '19- Jul '19]*

- Mastered various techniques of **Computer Vision** such as **segmentation, feature detection, feature-based alignment, Object detection and denoising**
- 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

Institute Developers' Community | IIT Bombay [\[Website\]](#)

IIT Bombay

[Apr '20 - present]

- o 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

Techfest | IIT Bombay [\[Website\]](#)

IIT Bombay

[Apr '19 - Dec '19]

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

### Convener

Web and Coding Club | IIT Bombay [\[Website\]](#)

IIT Bombay

[Apr '19 - Mar '20]

- o 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
- o 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

Hostel 15 | IIT Bombay [\[Website\]](#)

IIT Bombay

[Aug '18- Apr '19]

- 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

- o Awarded the **Best office bearer**(1 Of 1000) for the remarkable contribution to the hostel [2019]
- o 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 [2018]
- o Ranked **17th** in Rajasthan in 10th class out of **0.17 million** candidates, conducted by RBSE [2015]

## TECHNICAL SKILLS

### Programming Languages

C, C++, R, Python, JavaScript, MATLAB, HTML, CSS

### Softwares/Frameworks

Git/GitHub, Django, Jekyll, Bootstrap, Angular, PHP, Google Cloud Platform, Firebase, AutoCAD, MATLAB, Octave, L<sup>A</sup>T<sub>E</sub>X

## EXTRACURRICULAR ACTIVITIES

- o 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]
- o Successfully completed **80 hours** of community service as a volunteer of **NSS**, IIT Bombay. [2019]
- o Designed a **Bluetooth** controlled bot that can be maneuvered through an android **app** [2018]
- o 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 [2018]

## COURSES UNDERTAKEN

### Mathematics

Calculus, Linear algebra, Ordinary differential equation, Numerical Methods

### Computer Science

Computer Programming and Utilization, Digital Image Processing

### Others

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