

Yash Khare

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OBJECTIVE

To gain exposure, enhance my skills and always be ready to learn new things.

EDUCATION

- 2018-2022 **B.Tech in Computer Science and Engineering**, Amrita Vishwa Vidyapeetham,
Ongoing Kollam, Kerala, India.
CGPA: 9.34/10
- 2018 **St.Joseph's Academy, Higher Secondary Education ISC**, Dehradun, Uttarakhand, India.
Percentage: 94.25%
- 2016 **St.Joseph's Academy, Higher Education ICSE**, Dehradun, Uttarakhand, India.
Percentage: 92.2%

EXPERIENCE

- November **Intern at DRDO.**
2019 - I got selected as an intern at IRDE, DRDO establishment. During the internship, my work
Present involved **digital image processing, computer vision and object detection.**
- November **Google Code-In Mentor.**
2019 - Google Code-in is a contest to introduce pre-university students (ages 13-17) to open source
January 2020 software development. I have been invited by the **Wikimedia Foundation** as a mentor for
the Google Code-In 2019.
- August 2019 - **GitHub Campus Expert.**
Present As Campus Expert, I am trained to build a strong technical community. Besides training, I
have access to resources and support from GitHub, which helps me organize workshops.
- May 2019 - **FOSSASIA Internship.**
August 2019 I got selected as a FOSSASIA intern in May 2019 and will help in further enhancing the
projects of FOSSASIA. The internship involves learning more about **image processing**
using OpenCV and BLE APIs(Bluetooth Low Energy APIS) and using those in the
Phimpme and Badge Magic Projects.

- July 2019 **7th Undergraduate Summer School, Indian Institute of Science.**
I was selected for the 7th Undergraduate Summer School, held by the Department of Computer Science and Automation of Indian Institute of Science at Bengaluru. This program is a course for introduction into the fields of research where students are most involved currently. It is mainly meant for final and pre-final year students, but sophomores are also encouraged to apply. I was selected for the program in my sophomore year itself after clearing the application and interview phases, **being the only sophomore accepted into the program out of the 90 selected students all over India.**
- July 2018 - **Member of amFOSS.**
Present amFOSS is the Free and Open Source Software club of my college. I have been an active member of the community from the time I joined college. I actively take part in all events and also help in organizing events hosted by amFOSS. I have also taken responsibility for the monthly sports sessions that the community has.
- November 2018 - **Contributor to FOSSASIA.**
Present FOSSASIA is an Open Source Organization to which I am a regular contributor.
- November 2018 - **FOSSASIA CodeHeat Participant.**
I participated in FOSSASIA's coding contest, CodeHeat. On basis of my contributions to FOSSASIA during this time, I became an OpenTech Night winner and got the opportunity to attend the FOSSASIA OpenTech Summit(March 2019) in Singapore.
- January 2019
- December 2018 - **KWoC Participant.**
I participated in KWoC(Kharagpur Winter of Code) by IIT Kharagpur which was a month long coding competition. I successfully completed KWoC and was **finally among the top 3 contributors.**
- January 2019

ACHIEVEMENTS

- My paper on **Infrared Image Enhancement using Convolution Matrices** got selected to be presented in the **International Conference on Optics and Electro-Optics 2019(ICOL 2019)** which is held at **Instruments Research and Development Establishment**, a premier **DRDO** establishment working in the field of Electro-optics
- Got selected for **Hack The North**, Canada's biggest Hackathon, held at the University of Waterloo(travel funding provided)
- Won **2nd prize in IBM-Cloud Category** in FOSSASIA UNESCO Hackathon
- FOSSASIA **OpenTech Night winner**
- Scored **100/100 in Mathematics** and **95/100 in Computer Science** in ISC Board Examination(Class 12)

PROJECTS

Tweegenous Tech stack: Python, Jupyter Notebook.

This project is used to collect tweets from Twitter in different languages using NLP. It was developed as a part of the FOSSASIA-UNESCO Hackathon, in Singapore, in which my team won the 2nd place in IBM-Cloud Category. The tool was designed for people who speak indigenous languages. It collects tweets related to natural disaster and translates them in the language desired by the user and alerts people instantly if there is a natural calamity or any disaster headed their way by translating tweets. It is a two-way system, for both the authorities and people. Link to project:

<https://github.com/tweegenous>

Phimpme Tech stack: Java, XML, Android, OpenCV.

Phimpme is an open source photo editing application designed for Android phones. I am one of the top contributors in this project and have fixed several bugs and made several new features. I am also one of the maintainers of this project. Link to project:

<https://github.com/fossasia/phimpme-android>

Badge-Magic Tech Stack: Kotlin, XML, Android.

Badge-Magic is an Android application which is used to control LED Badges. I have been a core contributor to the project and have helped build this project from scratch. I also help maintain this project. Link to project:

<https://github.com/fossasia/badge-magic-android>

Asha-SOS Tech Stack: JavaScript, HTML, CSS, Bootstrap.

This is a project for disaster management in case of floods when due to loss of internet connection, people are not able to send for help. Our project helps in providing a network in case of floods. A device called a Node-MCU is used to provide a WiFi network. Link to project:

<https://github.com/kochi-hackathon/AshaSOS>

Temple App Tech stack: Java, XML, Android, Google Sheets API.

An Android app which handles the information about a temple. People can register and keep a track of all poojas, donations made to the temple. I am one of the core developers and maintainers of this project. Link to project:

<https://github.com/amfoss/TempleApp>

Problem Solving Tech Stack: Java, C, C++, Python.

I have a keen interest in problem solving. I learn and understand several new algorithms and use them to solve problems from online judges. Link to project:

https://github.com/yashk2000/PROBL3M_SoLV1nG

Scripts Tech Stack: Python, JavaScript.

I like to make scripts to automate some everyday tasks. Some of the scripts I made are:

<https://github.com/amfoss/facebook-graph-api>

<https://github.com/amfoss/star-me>

<https://github.com/yashk2000/python-programs>

Volunteering

- **MLH Local Hack Day:** This is a 12-hour workshop sponsored by MLH-Major League Hacking which happens all around the world on a particular day, generally in October. I submitted an application to organize this workshop for my college which got approved. The event was held on 12 October and was a grand success.

- **Hacktoberfest Meetup Amritapuri:** This was a 2 day workshop to introduce beginners to Open Source via means of Hacktoberfest(a program by DigitalOcean). I helped organize this event on 9-10 October, 2019 and took sessions for the attendees to get them started with Open Source Contributions.
- **Programming Essentials Workshop:** This is a 6 week long workshop(starting in August) to introduce freshers to basics of programming in languages such as C and Python. Juniors are also exposed to the world of Open Source Software and are taught about Git and GitHub. I helped in taking sessions and mentoring over 60 students as a part of this workshop.
- **Reconnect:** This was the first alumni meetup that my college open source community, amFOSS, had in July. I helped organize this event which turned to be a great success. It was a great opportunity for students and our alumni to interact with each other.
- **Dive Into Open Source:** This was a workshop held by our college during the annual TechFest, Vidyut. This workshop was attended by more than a hundred students, not only from my college, but from other colleges too. We taught the attendees how to use Git and GitHub, along with basic etiquette on how to get started with contributing to open source organizations.
- **CIR Road to Excellence:** This workshop is help by the placement cell of my college, CIR. There were several tracks in this workshop, out of which I was responsible for organizing and taking sessions in the Android Development Track. I took a workshop for a batch of 60-70 students on developing Android apps using Java.

LANGUAGES

- English** Full Professional Proficiency
- Hindi** Native Tongue, Full Professional Proficiency

COMPUTER SKILLS

- Operating Systems** Linux(Debian and Fedora), Windows
- Programming Languages** Python, Java, Kotlin, XML, C, C++
- Scripting Languages** Bash shell scripting
- Version Control Systems** Git
- Other Skills** Android Development, OpenCV, Problem Solving, JavaScript(basics)

INTERESTS

- Technical** Artificial Intelligence, Machine Learning, Computer Vision
- Hobbies** Reading, Travelling, Singing, Guitarist, Contributing to Open Source

PERSONAL DETAILS

Date of Birth 12th November, 2000

Current Residence Kollam, Kerala, India

Status Student