Yash Khare

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SUMMARY

A proactive and fast learning individual seeking an opportunity to work as a dynamic software engineer utilizing my analytical & methodical skills and relevant expertise to help the company achieve business goals while sticking to vision, mission and values.

EDUCATION

Amrita Vishwa Vidyapeetham	Amritapuri, Kollam, India.
Bachelors of Technology in Computer Science; GPA: 9.14/10.0	*Expected May 2022*
St.Joseph's Academy	Dehradun, Uttarakhnd, India.
Higher Secondary; Marks: 94.25%	*May 2018*
St.Joseph's Academy	Dehradun, Uttarakhand, India.
Secondary; Marks: 92.2%	*May 2016*

EXPERIENCE

Defence Research and Development Organization(DRDO)	Dehradun, India
Intern	*November 2019 - December 2019*

My work involved automatic target detection using background differencing, frame differencing, and difference fusion.An algorithm was also developed by me for automatic detection of moving ground targets, viz. vehicle, human, etc. in image sequences captured by an infrared (thermal) imaging system.

GitHub	
GitHub Campus Expert	*August 2019 - Present*

As GitHub Campus Expert, I receive training and mentorship from GitHub employees and support to help in the growth the developer community on my campus.

FOSSASIA	
Intern	*May 2019 - August 2019*

I overhauled cloud deployment of 2 applications, resulting in reduced run time performance by 30%. I helped in developing the hardware simulation, Badge Magic, of a LED name badge, by passing the 2D array into a filter of animation specific algorithm. I also worked on Phimp.me Android application, a photo editing tool. I automated PlayStore and F-droid deployment process and also improved the build time by 5 minutes using Fastlane tool, bash scripting, and continuous integration.

PROJECTS

- **Kiwix**: Kiwix is an offline reader for Web content, made for android platforms using Kotlin. One of its main purposes is to make Wikipedia available offline. This is done by reading the content of a file in the ZIM format, a highly compressed open format with additional meta-data. I am one of the top contributor of the project with 100+ contributions.
- **amFOSS CMS**: This is a flutter application using which club members can login into the amFOSS Club Management System and view club related details fetched using the CMS APIs, also made by amFOSS members.
- **Tweegenous**: 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.
- **Phimpme**: Phimpme is an open source photo editing application designed for android phones using Java and OpenCV. I am one of the top contributors in this project with 150+ contributions.
- **Badge Magic**: Badge-Magic is an android application, in Kotlin, 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.

SKILLS

- **Languages**: Python, Java, Kotlin, Dart, C++, C, Bash.
- **Skills**: Android Development, Flutter, Computer Vision, Problem Solving
- **Tools & Technologies**: Git, Mercurial, GitHub, GitLab

ADDITIONAL EXPERIENCE & ACHIEVEMENTS

- Got invited to FOSSASIA OpenTech Summit 2020, Singapore, to give a talk on The Optimal Pathway to Deep Learning
- 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) held at Instruments Research and Development Establishment, a premier DRDO establishment working in the field of Electro-optics
- Won 2nd prize in IBM-Cloud Category in FOSSASIA UNESCO Hackathon held in Singapore.