Bharath Ravi Prakash

Senior Software Engineer

- Over 5 years of profound development experience in C, C++ and Java in mobile Operating System domain with experience across mobile platforms such as Linux, Android and Tizen.
- Experience working on Android Framework and AOSP build system for Android Pie to Android 14 for Handheld, ATV and STB devices.
- Experience handling LR, MR and SMR upgrades for OEM devices
- Strong knowledge on Android Frameworks including core Android features like Wi-Fi, Bluetooth, Camera, Telephony and GPS.
- Experience working on Android board bring up and device certification.

Work History

09/2020 - Current

International Freelance Developer
Fairphone B.V.
- Chief Architect for complete OS upgrade of Android 10 on the Fairphone FP2.
- Complete bring up including OS boot up, feature bring-up, Google certification fixes.
- Lead engineer for the Android 12/12.1 and 13 bring-up for Fairphone FP3
- Lead engineer for the Android 13 and Android 14 bring-up for Fairphone FP4
- Involved in full bringup of the device including Board and all key feature integration.
- Involved in fixing Framework defects, defects in Google Compatibility Test Suite, GMS Test Suite, Vendor Test Suite, Security Test Suite.

05/2023 – Current

Shift GmBH
- Lead engineer working on Android 13 for Shift 6mq device
- Involved in fixing Framework defects, defects in Google Compatibility Test Suite, GMS Test Suite, Vendor Test Suite, Security Test Suite.

Murena OS
- Independent device maintainer for Fairphone FP3
- Complete responsibility on monthly security updates, kernel security merges, bug fixing and device stability.
- Developed a one click tool for all platforms to easily install the OS upon a new software update release.

02/2022 – 03/2023

Senior Software Engineer
Harman India Pvt. Ltd., Bengaluru, Karnataka
- Hands-on experience on fixing certification issues in YouTube for Android TV by following Google standards.
- OS Upgrade, Bug fixing and feature enhancement for Android T and Android U
- Involved in fixing Framework defects, defects in Google Compatibility Test Suite, GMS Test Suite, Vendor Test Suite, Security Test Suite across mobile and ATV devices.

10/2022 - Current

Software Engineer
Harman India Pvt. Ltd., Bengaluru, Karnataka
- Upgraded Android OS of a device to Android12 single handedly.
- Technical ownership across all aspects of the project.
- Update monthly security updates as provided by AOSP.
- Bug fixing and feature enhancement for Android R and Android S.
- Involved in full bring up of the device including Board and all key feature integration.

07/2021 – 10/2022

Contact

Address
Koppa Village, Hulimangala Post,
Anekal Taluk,
Bengaluru, KA, 560105

Phone
+91 8904473449

E-mail
bbharath54321@gmail.com

LinkedIn
https://in.linkedin.com/in/bharath-b58

Website
https://teamb58.org

Skills

Software Tools: Eclipse, Android Studio, Tizen Studio, Microsoft Expression Web 4, JIRA, Git, Gerrit.
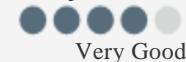
Skills:

Embedded C
●●●●○ Very Good

Internet of Things
●●●●○ Very Good

Android Application Development
●●●●○ Very Good

AOSP
●●●●○ Very Good

Android Framework
●●●●○ Very Good

Programming Languages:

C/C++ Programming
●●●○○ Good

Java
●●●●○ Very Good

HTML5
●●●○○ Good

Smali Debugging
●●●●● Excellent

Associate Engineer

03/2019 – 07/2021

Harman India Pvt. Ltd., Bengaluru, Karnataka

- Upgraded Android OS of a device from Pie to Android10 single handedly.
- Fixed more than 15 critical bugs across both user space and kernel for Android Pie.
- Patch segregation and integration for AOSP with enforcing mode of SELinux.
- Fixed more than 400 Android CTS failures, more than 100 Android GTS and integrated monthly security patches.

Application Development Associate

12/2018 – 03/2019

Accenture Solutions Pvt. Ltd., Bengaluru, Karnataka

- Involved in fundamental training on various technologies including Java, SQL, Unit Testing, Software Development Life Cycle and Web Technologies.
- Design, build and configure applications to meet business process and application requirements.

Education

08/2013 – 07/2017

Bachelor of Engineering: Electronics And Communications Engineering

Jyothy Institute Of Technology - Bengaluru

Papers Published

- "Super Smart Irrigation System using Internet of Things." *IEEE International Conference on Smart Structures and Systems (ICSSS 2020)*. SEC, Chennai, Tamil Nadu, July 2020
- "Super Smart Home Automation System using Internet of Things." *IEEE International Conference on Electrical, Electronics, Communication, Computer Technologies & Optimization Techniques (ICEECCOT2019)*. GSSSIETW, Mysuru, Karnataka, December 2019
- "Super Smart Management of Street Lights using Internet of Things and Power Management." *IEEE International Conference on Smart Systems and Inventive Technology (ICSSIT2019)*. FXEC, Tirunelveli, Tamil Nadu, November 2019
- "Navigation Technology to meet new people using Fused Location API." *IEEE International Conference on Computing and Communication Technologies (ICCCT2019)*. SSEC, Chennai, Tamil Nadu, February 2019
- "Addressing Security Issues in Latest Android Versions and Applications." *International Journal for Research in Engineering and Technology*. Bengaluru, Karnataka, August 2017
- "Adaptive filters using EVSSLMS Algorithms based on the Communication." *IEEE International Conference on Signal Processing, Communication, Power and Embedded System (SCOPES2016)*. Centurion University, Paralakhemundi, Odisha, October 2016

Accomplishments

- **Android OS Port**: Ported the OS version of a device from Pie to Android10 single handedly with minimal test failures.
- **Copyrights registered**: Designed 3 prototypes based on IoT and got the concept Copyright registered.
- **Review Committee for IEEE Conference**: As a result of active involvement in Bangalore chapter's activities, an invite was given to join the Review Committee for two IEEE Conferences. Successfully reviewed papers

Languages

English

Native

Tamil

Advanced

Kannada

Superior

Telugu

Superior

Hindi

Advanced

for two IEEE International Conferences.
- **Chapter Head**: Was unanimously elected as IEEE chapter head of college for my active involvement in section activities.
- **Science and Mathematical competitive exams**: Participated in various Science and Mathematical competitive exams and awarded certificates for participation.