PRAFULLA GAIKWAD

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TECHNICAL SKILLS:

Programming expertise: ***Data structures, Algorithms, Object oriented programming***
Skills sets : ***Javascript, Spring Framework, Servlets, jQuery, PHP, Linux kernel development and device drivers, Android Power optimization, shell scripting, operating systems , AGILE and SCRUM.***

Programming languages expertise:	*C, C++ , Java, Html, CSS, python, jquery, PHP*
Operating systems:	*Android, Ubuntu*
Version Control Software used :	*Git, Perforce.*

ACADEMIC PROJECTS:

MeetME (Meeting scheduler application like doodle) –

- **Designed and developed** a web application **in JAVA, jquery, JSP,mySQL[1]** which checks limitations of Doodle using **Spring Framework**. – (https://github.com/prafull1249/MeetME_webApplication)
- **Implemented** an algorithm which automatically delivers the meeting time according to attendee's convenience and handles time zones effectively.
- Working on enhancing the application by integrating node.js in it(handling time zones, integrating CRON job).

PROFESSIONAL EXPERIENCE:

Software Engineer   **Samsung Research Institute- Noida, India(June 2012 –July 2015)**

- *Worked on development and optimization of power management subsystem in Android: expertise on Charging and Battery monitoring Linux framework, expertise in Accessory detection (MUIC) and Power Management of Smartphones in handheld devices*
- ***Developed*** an ***android application in Java on Android 4.4*** *which would control fast charging and slow charging of the device according to user input. The project was part of an innovative experience competition in Samsung.*
- ***Designed a Battery monitoring framework*** *for Samsung Low End model (Galaxy Core 2) which controlled detection of accessories, full charging cycles, battery calibration, temperature monitoring and battery inflation control mechanisms*
- ***Developed and debugged Battery driver which is a Samsung wrapper driver*** *for Spreadtrum soc based models which implements an algorithm to co-ordinate all the information from Fuelguage, charger IC and MUIC to control charging process to elongate battery life, check any soc (State of charge) fluctuations and prevent overheating of device.*

PROFESSIONAL PROJECTS   (Samsung Research Institute, Noida - India):

- **SHARK RnD project at Spreadtrum, Shanghai -**   *SPECIAL CONTRIBUTION AWARD*
    1. *In charge of Battery monitoring framework (SPA driver) and power consumption optimization.*
    2. *Development and debugging the power management*
- **Commercial Project KANAS Project -**   **EMPLOYEE OF THE YEAR**
    1. *Implementation of i2c gpio driver in bootloader.*
    2. *Awarded for this project for fixing idle current power optimization issue.*
- **Dolphin(SC7715) SoC based Project Corsica VE(Samsung galaxy pocket)**   **CERTIFICATE OF EXCELLENCE**
    1. *Developed a battery model with SPA wrapper driver and Android application to control charging.*
- **Project Baffin RS Roaming Galaxy Grand VE (Tshark based)**

    ◦ 1. *Implementation of faulty battery detection through PMIC(SC2723s) ADC block.*

EDUCATION:
Master of Science in Computer Software Engineering   **May 2017**

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Arizona State University, Tempe, AZ
  Bachelor of Technology – *National Institute of Technology, Nagpur, India* **(3.3 GPA)**   *May 2012*