Savan Kiran

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EDUCATION

Bachelor of Engineering, Computer Science and Engineering; June 2012
M S Ramaiah Institute of Technology, Bangalore.

WORK

Senior Software Engineer, Advance Development, User eXperience (AD, UX) team, TP Vision, Bangalore
April 2014 – present
- TP Vision is dedicated to making *Philips Televisions* running on *Android*.
- Enhanced UI (Zapster) – Most important application in the TV that enhances user experience by bringing together content (i.e., channels and programs) from different sources in one place enabling user to conveniently browse and watch programs.
- Boot Time Optimization – Did a thorough analysis of the current product and found pinch points during the boot process in a very short span. Optimized these areas to reduce boot time from 19.8s to 18.5s with a gain of 1.3s (6.6%).
- Shared Resource Library – Studied and comprehended Android resource library framework to create a new TV specific shared resource library that provides images, icons, locale-specific strings, etc. to various applications on TV.

Software Engineer, Advance Development, User eXperience (AD, UX) team, TP Vision, Bangalore
September 2012 – March 2014
- Advanced Remote Control (RC) – Is a novel user interaction pattern with a single remote control acting as keypad as well as a pointing device. Worked as a two member team to bring up the complete stack, from interacting with the RC hardware to designing and implementing application interface.
- Virgin Installation Wizard – A wizard that assists first time users to set up their TV by choosing language and country, install channels and connect to network, etc.
- Developed many reusable user interface (UI) components and frameworks by collaborating with Design and Application development teams.

Intern, Janaagraha (Center for Citizenship and Democracy), Bangalore
July 2011 - August 2011
- Janaagraha is a non-profit organization dedicated to spreading citizenship and democratic values to citizens of India.
- I developed pages for ipaidabribe.com's Facebook profile and created avenues for increasing the visibility of the program.

RESEARCH

Research Assistant, Department of Computer Science and Engineering, M S Ramaiah Institute of Technology, Bangalore
September 2011 - May 2012
Project – Wireless Sensor Networks (WSN) – Routing Protocols

Lead – Dr. Monica R Mundada

- Studied over 80 papers on state of the art WSN routing protocols.
- Came up with an *energy aware* heuristic function that senses the energy levels and traffic along the paths and chooses the best path for information routing. Using this function in a hierarchical network resulted in an energy efficient routing protocol, "Energy Aware Multi-hop Multi-path Hierarchy" (EAMMH).
- Wrote simulation code for EAMMH on open source Network Simulator – 2 (NS2) stack.
- Recorded empirical analysis of EAMMH performance for varying parameters.
- Completed a comparison study of EAMMH with respect to well-known hierarchical routing protocol, "Low Energy Adaptive Clustering Hierarchy" (LEACH) where average energy of 200 sensor nodes at the end of 100 rounds is 53% greater in EAMMH.

PROJECTS

3D First Person Shooter (FPS) game

- Built on openGL platform.
- Plot – player has to eliminate all enemy targets and find the key that unlocks the door to the next level. Layout – Fabricated two different maps with multiple rooms and sliding doors.
- Most challenging part was to track the trajectory of the bullet fired and find the collision points of the bullet with surrounding walls and/or moving targets

Online library management system

- Built on LAMP (Linux, Apache, MySQL and Php) framework.
- Two types of accounts – administrator and user can be created.
- User can sign up and browse, borrow or return books. He can also add books to queue and his personal wish list. Administrator can add, remove and edit books. He can monitor number of copies of a particular book and take appropriate actions.
- Implemented late return policy along with fine calculation.

Embedded system for monitoring room temperature

- Built using 8051 microcontroller and temperature sensors.
- Sensor data is converted to human readable form, i.e., in terms of degree Celsius and Fahrenheit and displayed on an LCD display refreshing periodically.

PUBLICATIONS

- "A study on energy efficient routing protocols in Wireless Sensor Networks" in International Journal of Distributed and Parallel Systems (IJDPS) Vol.3, No.3, May 2012.
  http://airccse.org/journal/ijdps/papers/0512ijdps26.pdf

AWARDS AND RECOGNITIONS

- Award for Excellence, 2014 awarded by TP Vision, Bangalore for making exemplary contribution toward UX team.
- Won spot awards in 2015 and 2013 at TP Vision for adapting to dynamic design changes and making a successful demo to the management team at Amsterdam respectively.
- Participated in National Level Project Exhibition and Competition organized by the department of Computer Science and Engineering, M S Ramaiah Institute of Technology, Bangalore.
- Successfully completed a two day workshop on "Version Control using Git" in May, 2013 at Bangalore.

SKILL SET

- Well aware -
  - Core java
  - SQL and SQLite
  - Android platform development (Mobile + TV)
  - Android application development (Mobile + TV)
  - Git
  - Make build system
  - Linux
  - Agile & scrum way of working
  - Digital & Interactive TV
  - AOSP (Android Open Source Project)
- Intermediate -
  - C
  - C++
  - Shell scripting
  - AWK scripting
  - JNI
  - SVN
  - OpenGL
- Beginner -
  - PHP
  - HTML5
  - CSS
  - Javascript
  - Python

LINKEDIN PROFILE

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