SuryaDev Reddy Gouru

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EDUCATION

National Institute of Technology Karnataka, Surathkal	2014-18

B.Tech, Computer Science & Engineering – Current GPA- **9.08/10**

12th (Senior Secondary Examination)	2014

State Board, 98%

10th (Secondary Examination)	2012

State Board, CGPA – 9.8/10

TECHNICAL SKILLS

- Languages   : C, C++, Java
- Web Technologies   : HTML, CSS, JavaScript, Bootstrap, PHP
- Tools   : Eclipse, NetBeans, Android Studio, Wamp
- Databases   : MySQL

ACADEMIC PROJECTS

XOS

- Developed a Toy operating system with features like multiprogramming, virtual Memory and system calls
- Implemented multiprogramming using round robin as process scheduling algorithm and demand paging using second chance as page replacement algorithm
- Implemented file system calls and process system calls with copyonwrite feature
- Implemented several OS data structures by understanding file system (XFS), Memory Organization and architecture of simulated machine hardware (XSM)
- Effectively optimized seven interrupt routines including timer interrupt, an exception handler and OS startup code by space and complexity

Trade Game

- Developed Trade game which is an Indian version of traditional famous board game Monopoly using object oriented approach and were successful in analyzing , designing the structure of program using UML diagrams
- Successfully dealt with the complexity of the problem achieving preciseness in functionality along with good feel of user interface and graphics for the user
- Applied agile methodology to our project to get acquaintance with the agile methods as it is most commonly used in the industries and also analyzed various GDLC's used for game development

E-Commerce Website

- Designed E-commerce website for an E-store using web technologies like HTML5/CSS/Java script/BOOTSTRAP/MySQLi/PHP where customers can shop and buy smartphones seamlessly
- Configured MYSQLi database and integrated with backend applications
- Added advanced features such as form validations and security to the website

GCD and LCM Processor

- Effective implementation and simulation of Digital circuit based on Euclidean algorithm to find GCD and LCM of two 4-bit numbers on multi-sim software
- Executed the algorithm with reduced complexity of design and minimum hardware requirement to achieve less clock pulses

TRAINING & WORKSHOPS

IOT (internet of things)

- Acquired knowledge on upcoming future IOT technology which emphasizes on IPV6 protocol
- Understood the architecture of BOLT device which can interface output devices by just using HTML, CSS, and JavaScript
- Experimented on few household things like connecting the door to the Facebook using proximity sensor and IFTTT automation, and collecting live data from things and sending it to the Thingspeak application.

Web Development

- Undergone online training on web development technologies like HTML, CSS, Bootstrap, PHP, MySQLi

Applied CS with Android

- Implemented advanced data structures like Hashmap, Hashset, Trie and search algorithms in developing android apps

ACHIEVEMENTS

- Secured All India Rank 1005 in JEE Mains 2014
- Got first prize in Vedic Quiz '16 competition among 400 students and awarded with cash prize of INR 10,000
- Received merit scholarship from NITK, Surathkal