SIMRIT ARORA
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OBJECTIVE

To obtain a challenging and responsible position in a professional organization to gain experience, and contribute to its business growth in both new opportunities and established accounts by utilizing my skills and hard work.

EDUCATION

George Mason University Fairfax , VA
Doctorate Electrical & Computer Eng-Grad, (Pursuing)
GPA 3.78

Guru Gobind Singh Indraprastha University India
Bachelor of Electronics & Communication Electrical & Computer Eng,
GPA 3.84

EXPERIENCE

Infosys Limited Mysore, India
Software Engineer June 2010 - June 2012

Project Name:	**Flypp (Thin Client)**
Duration:	May, 2011 – June, 2012
Team Size:	2
Role:	Developer
Client:	Aircel

Description

Development of Aircel Pocket Apps store which hosts various mobile applications for the WAP/GPRS mobile users to browse through and download the application.

Responsibilities

- analysis of UI requirements
- designing of UI according to the requirements
- development of UI (GPRS/WAP site) in accordance with the mConnect framework (product of Infosys, based on JAVA) and its functionalities integrated with business layer.
- issue resolution

Environment

JAVA, Eclipse, MySQL, mConnect, JBoss

Project Name:	**Flypp (Thick Client)**
Duration:	February, 2011 – July, 2011
Team Size:	6
Role:	Developer
Client:	Aircel

Description

Development of Android thick client apps for The Flypp Store (product of Infosys), in order to create an application store similar to the Android market.

Responsibilities

- analysis of UI requirements
- development of UI and its functionalities integrated with business layer in accordance with the requirements.
- issue resolution

Environment

JAVA, Eclipse, MySQL, Android SDK, JBoss

TECHNICAL SKILLS

Programming languages	C, C++, JAVA
Scripting languages	Javascript, Python(learning)
Database	MySQL
Hardware languages	VHDL
Assemble language	8051, 8085
Paltforms	Windows 95/98/2000/XP/Vista/7, Linux
Tools	MS Office, Eclipse, Tortoise SVN, Maven Putty, WinSCP, eGIT

PROJECTS

Computer Architecture: Analysis of various computer architectures using SMTSIM (still working)

- getting familiar with the different architectures available now and their evolution over time
- writing python scripts to change the size of several processor units and get the performance for various benchmark to find which one (s) is/are the most performance bottleneck unit

Digital Design: Authenticated Encryption based on Keccak (using sponge construction)(still working)

- finished with the block diagram for the datapath and asm chart for the controller and their respective VHDL code
- working on debugging the VHDL code for both the datapath and controller

Cryptography: Secure Distributed Storage System on ARM architecture (still working)

- encrypt a file using AES-256 bit key.
- split the file into n shares using JErasure Codes
- split the key into k shares using Shamir's Secret Share Scheme
- collect any t (<=n) shares and reconstruct the file

Embedded Systems: Digital IC Tester

- programming language: C
- capable of testing the basic gates in an IC to ensure their correct functioning
- an extremely useful and low budget embedded system

Embedded Systems: Radio Controlled Robot

- programming language: assembly language – 8051
- a self intelligent embedded system capable of both manual and remote operation
- capable of operating on 3 different speed levels
- provided with proximity sensors and mechanism to detect and avoid obstacles

Industrial Training: Automation of power grid using Supervisory Control And Data Acquisition (SCADA)

- SCADA: used to automate North Delhi Power Ltd (NDPL), an electricity distribution unit
- system registers energy usage through remote sensing and reduces the need for manual intervention
- it included development of a supervisory server
- connecting all the power grids to the server using Remote Terminal Units (RTU's)
- server would get all the data via the RTUs and hence all operations could be controlled automatically.

CAPABILITIES

- Strong analytical & problem solving skills.
- **Goal Orientation**: commitment shown towards achieving the set targets.
- **Communication Skills**: the ability to plan and deliver written and verbal communications effectively
- **Interpersonal Skills**: ability to develop and maintain relationships within Organisation and clients and ensure the task which needs to be coordinated is completed effectively
- **Initiative:** identifying what needs to be done and doing it before being asked or before the situation requires it.
- **Commitment:** willingness to walk the extra mile to ensure customer's delight.
- **Systematic and Organised Approach**: planning and organizing, for better project management.

ACHIEVEMENTS

- Awarded with Graduate Assistant Grant from George Mason University
- Member of the Cryptographic Engineering Research Group (CERG), George Mason University.
- Awarded Bravo award in September 2011 for handling the critical requirements of the project FLYPP in Infosys.
- Recommended for top 5% salary range and achieved the same. (based on performance).
- Secretary, Students' Council, Gugu Tegh Bahadur Institute of Technology.
- Training certification in Embedded Systems & Robotics, 2008
- Merit Certificate for National Mathematics Olympiad, 2006
- Merit Certificate for National Mathematics Olympiad, 2004