

Iswarya S Gabbita

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[LinkedIn](#)

Seeking a full-time opportunity in the field of Computer Engineering where I can use my expertise to innovate, implement, learn & grow as an individual, adding benefit to the organization

WORK EXPERIENCE

IT Assistant, Academy for Professional Excellence, SDSU

Nov'14 - Present

- Customer Support: Troubleshoot hardware/software issues, setup and maintain network infrastructure
- Deploying, installing, imaging, configuring, administering operating systems and vendor applications
- Identification of technology trends, determining system improvements and implementing upgrades
- Documentation: Provide technical expertise and support to users, management of resource inventory

Associate System Engineer, IBM, Bangalore, India

Jun'12 - July'14

- Active role in the different phases of SDLC; Code deployment, system integration, user acceptance testing activities for version upgrades.
- **Web design: Front End** – Web page development, form validation and testing for accounts relating to enterprise risk management in capital markets for Bank of Montreal. **Back End** – Creation and verification of test cases against the database
- **Monitoring & tracking** critical file arrival process for account reconciliation using tools like Autosys, PuTTY
- Supported and maintained MS SQL servers, windows server and custom applications for the Shell Upstream account
- Back end user administration and management of Shell custom applications such as EDS, PHA Pro, CTR for chemical resource extraction
- Share point portal design, administration, access rights and management of project artifacts across all the above program
- Issue, defect tracking and creation of project metrics and reports using Crystal Reports, SSRS

EDUCATION

Master of Science in Electrical & Computer Engineering

(Major: Computer Networks, Minor: Communication)

San Diego State University, California, USA

Aug'14- May'16

Bachelor's in Electronics & Communication Engineering

P. E. S Institute of Technology - south campus, Bangalore, India

Sep'08 - July'12

PROJECTS

<https://github.com/igabbita>

- **Firewall Setup:** Sonic WALL TZ Series Unified Threat Management (UTM): Installed a switch, created multiple subnets and configured their routers, assigned static IP's to printers, cameras. Also set up Layer 2 Bridge between the Wireless and Wired Networks
- **Group Chat App:** Developed a Linux based application across platforms (Python & C++) which helps users communicate on a Star Network topology where the server broadcasts messages to all users, user addition and deletion being dynamic
- **Coordinated Networks:** TDMA based network design for asynchronous and isochronous traffic to decrease channel overhead in 802.11
- **Video Streaming in TCP/IP:** Modified network parameters such as latency, error rate and bandwidth using an emulator tool, captured the packets and observed the quality degradation in video on demand applications such as YouTube, Netflix using Wireshark
- **Adhoc Sensor Network Design:** Packet formation and hierarchy implementation of multi hop-multi channel networks for acceptance of new nodes with emphasis on issues such as node discovery, synchronization and topology changes
- **Client Server Communication:** Created programs in C to simulate simple client-server interaction using TCP/IP socket programming. The server performs manipulation on the data received from the client and routes it to the third server, acting as a client
- **MPEG Based Video Codec:** Implementation of an MPEG Video encoder and decoder for the first 5 frames of a video sequence using Matlab. Reconstructed the image and estimated the error difference in each frame
- **Noise Cleanup Filters:** Designed and programmed filters for audio file cleanup, corrupted by colored noise and two annoying sinusoidal signals using Matlab software
- **Robotics:** Line follower, Obstacle avoider, Touch screen control of robot using ATmega 16 microcontroller in Embedded C language

SKILL SET

Languages	: C, Python, Embedded C, MATLAB, C#, ASP.NET, Shell Scripting, HTML, CSS
Database	: MySQL, SQL server, MS Access
Operating Systems	: UNIX (Server & Client), Windows (Server 2008+ & Client)
Tools	: OPNET, WireShark, iperf, VirtualBox, FEKO, Cadence, Qualtrics, BMC Remedy, SM7
Source Control	: Git, Tortoise SVN
Others	: Active Directory, PowerShell, MS Office, SharePoint, TCP/IP Network Protocols

PAPER PRESENTATION

S. C. Raghavendra, Karthik B. G, Iswarya G. S*, Prashant M. T, Ashish Modi and Revanasiddappa M, "[Radiation Properties of Rectangular Microstrip Antenna with Magnetic Substrate](#)" presented at "**National Conference on Recent Advances in Electronics and Communication (NCRAEC 2012).**" held in Bangalore and was awarded the "*Best Technical Presentation of the Conference*"

TECHNICAL SEMINARS

- **Software Defined Networks:** Theoretical research on architecture, network modelling, OpenFlow protocol, data routing & applications
- **Wearable Bio Sensors:** Architectural design of ring sensors & smart shirts, their benefits & challenges in monitoring medical conditions

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Visa Status: F1-OPT