SANSHIT SHARMA

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TECHNICAL SKILLS

- Languages: JAVA, C, C++, GOLang, Python, Cython
- Operating Systems: Linux, Windows, TinyOS
- RDBMS: Postgres, SQL, MySQL
- Data Tools: NATS, Kafka

PROFESSIONAL EXPERIENCE

- **Sr. Software Engineer**   *May 2015 - Present*
  Cisco Systems, *San Jose, California*

  - ✓ **Project: Closed loop Automation for network devices in Data Centers**
    Developed a cloud based application to achieve closed loop automation in network data centers. The application leverages streaming telemetry to constantly collect data from devices and monitors real time data to ensure network stability.
    - o Developed infrastructure components to configure, upgrade & monitor network devices in real time.
    - o Managed design & architecture discussions, code deliverables and bug scrubs
    - o Developed backend modules to communicate across micro services.
    - o Led and delivered the architecture & development for application manager
    - o Developed database management packages in Golang.
    - o Contributed to Python modules to drive Ansible tasks using custom verbs.
    - o Delivered a product that performs pre and post checks to ensure device stability along with an ability to rollback entire configurations.
    - o Collaborated with development and test teams to create & deliver end to end cohesive product

  - ✓ **Project: Streaming Telemetry & Data Visualization**
    - o **Software development in C, C++ and Python** for streaming telemetry in Cisco devices
    - o Used Cython for wrapping existing C++ libraries to interface with Python
    - o Created various **Splunk prototypes for live data monitoring** of sFlow and IPSLA
    - o Mentored an intern to expand Splunk prototypes.
    - o Collaborate across various teams for Splunk and Telemetry design and coding

- **Software Developer Engineer, Modem SW Team**   *January 2013 – May 2015*
  Qualcomm Technologies Inc., *San Diego, California*

  - ✓ **Software development** in **C/C++** for mobile devices modems across cellular protocols like GSM, LTE.
  - ✓ Developed various features and created automation test suites for **Voice Over LTE** for modems**.**
  - ✓ **Developed software features** for simultaneous protocol service on a mobile device with dynamic switching between protocols.
  - ✓ **Led software commercialization** for various customers in NA & Asia Pacific
  - ✓ Created a web interface using **JavaScript** and server side technologies like **PHP** & **MySQL**

- **Software Development Intern**
  Siemens PLM, *Milford, Ohio*   *March 2011 – September 2011*

  - ✓ Developed tools for **performance evaluation** and **performance enhancement**
  - ✓ Developed and deployed a JAVA test **automation framework** that **cut down the test run time by 70%**
  - ✓ Developed JSP-Servlet based webpage for extracting user test data from XML files, upload to graphing engine and display the comparative results to the user

- **Project Engineer**
  WIPRO Technologies, *India*   *September 2008 – August 2009*

  - ✓ Development and maintenance of a multimedia player for automotive client like Volkswagen and Continental
  - ✓ Successfully completed **Six-Sigma Training** for SDLC and software engineering practices
  - ✓ Worked on Audio and Video control and frame error detection/correction

- **Graduate Teaching Assistant**
  Department of Computer Science, University of Cincinnati   *March 2010 – March 2011*
  - ✓ Tutoring and Teaching Data Structures to 40 Undergraduate Students
  - ✓ Developed programming assignments and examination papers for the students in C/C++ on Linux & Windows

EDUCATIONAL QUALIFICATION
- **M.S., Computer Science [GPA: 3.82]**   November 2012
  University of Cincinnati, Cincinnati, Ohio

- **Bachelor of Technology, Computer Science and Engineering [GPA: 3.00]** May 2008
  Maulana Azad National Institute of Technology, Bhopal, India

ACADEMIC PROJECTS

- **Distributed Topology Creation in Large-Scale Wireless Sensor Networks (Thesis Project)**
  This algorithm aims at creating a hierarchical regular overlay topology in a random sensor network deployment.
  Paper Published: MASS 2012
- **Estimation of location of Sensor Node using Triangulation (Winter' 2010)**
  Developed an application to locate the co-ordinates of a Sensor Node with reference to a Base Station based on the received RSSI value of the beacon signals.
- **Simulation Project for Secure Network Communication(TCP/IP) (Fall'09)**
  Implemented a secure Server-Client communication system. The data was sent over a TCP/IP connection encrypted twice in cascade and then decrypted at the receivers' end.

ACHIEVEMENTS

- Received five **connected.recognition** awards for project contributions in Cisco
- **Qualcomm Star award** for developing modem software code for GSM and TDS in multi-sim devices
- **Qualcomm Star award** for SGLTE commercialization support
- **Highest six month closing rate** for **issue analysis** in Modem Team, Qualcomm

EXTRA CURRICULAR

- Vice-President of CS Graduate Student Governance Association (GSGA), University of Cincinnati, 2010-2011
- Attendee, Seminar on Wireless and Adhoc Sensor Networks, University of Mumbai, India, December 2007
- Attendee, Convergence 07, a workshop on Networking, KRESIT, IIT Bombay, Mumbai, India, April 2007