SURESH S. KUMAR

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SENIOR SOFTWARE ENGINEER

Embrace Challenges | Develop and Implement Client-Centric Solutions | Collaborative Team-Player | Problem Solver | Value Adder

Forward-thinking and detail-oriented software developer well versed in software development life cycle. Translate business requirements into technical solutions with focus on quality, usability, and scalability. Design and develop software features for Fiber-To-The-User (FTTU) PON access product development in TL1, Gpon application, and SNMP areas. Strong programming experience in C/C++. Practiced modern software production process, reviews, and inspections using CMMI/CMM processes (Waterfall SDLC). Employ Agile methodology of software development to deliver high quality products within deadlines.

Possess passion to learn and work on latest technologies. Collaborate with cross-functional teams including test and customer support to troubleshoot complex issues and create solutions that are beneficial for client and company. Lead and mentor domestic and offshore teams to deliver value and consistently provide effective and efficient products.

Areas of Expertise:

Embedded Product / Application Development | Testing and Support
SDLC | Agile | Software Design | GPON | OLT |Full stack Development

TECHNICAL SKILLS

Hardware Platforms:	Redhat VMs, Windows PC
Operating Systems:	Linux, Windows, Proprietary Real Time OS (RTOS)
Databases:	Proprietary Embedded Database, SNMP Agent, Confd-cdb, Mongo DB
Languages:	C, C++, Python, Java, JavaScript, jQuery, AJAX, HTML, CSS, Web APIs, Node JS, Mongoose, MySQL, Jest, Express, Sequelize, MERN, ReactJS
Tools:	Net-SNMP, Clearcase, Clearquest, Git, Mercurial, Jira, Confluence, Jenkins, Eclipse, ICE (In Circuit Emulators), ddd , gbg debuggers.

PROFESSIONAL EXPERIENCE

NOKIA, Raleigh, NC

Applied R&D Engineer (Software)	**2016 - 2019**
Senior Software Engineer (Former Alcatel-Lucent)	**2008 - 2015**
Software Dev Engineer - IV (Former Alcatel)	**1998 - 2007**
Experience Engineer (Former Alcatel Engineering Service Center)	**1996 - 1997**

Provided software development, design, code, test, and delivered features for embedded systems. Worked on remote OLT device software (MSO), PON (Passive Optical Network), access product OLT (7342, 7360) software, and Mobile Switching Center (S12) software.

NOKIA (Continued)

- Developed software features for SF-4X remote OLT device (managed by conf-d NETCONF/YANG) in C language, running on Linux OS. Developed Python script to collect and retrieve "Support Info Logs" from device.
- Executed and tested various SNMP and other call points, network ACL functionality, logging functionality and supporting information collection features.
- Extensively worked on Performance Monitoring collection (telemetry collection and reporting) from distributed Line Termination (LT) Cards and Optical Network Terminating Units (ONTs) for 7342 and 7360 Fiber To The User (FTTU) product.
- Extensive experience working on distributed system involving several processor boards with redundancy and high availability. Worked extensively on proprietary RTOS and linux based embedded systems.
- Architected and Implemented PM (Performance Measurement) data collection for various collection intervals (5-minute, 15-minute, 1-hour, 1-day).
- Exported the PM data internally via BFMU (Background Mib Upload) via files as well as allowed access for external SNMP individual and bulk queries.
- Practiced agile software development in small scrum teams of 6 team members, conducting daily standup, sprint planning, sprint demo, sprint retrospectives, and backlog grooming.
- Collaborated with teams in India and China, reviewing work and providing guidance. Implemented features for systems team in Antwerp, Belgium.
- Architected, Implemented and integrated various features in GPON subsystem, Gpon Mapper software using C, C++.
- Designed, coded, and integration tested features involving SNMP interface. Optimized SNMP queries and bulk retrieval.
- Introduced new features for IP applications software in QoS applications and modified code for various LT and NT software for 7342.
- Implemented new TL1 commands for PON systems using in C++ and created software applications employing C, C++ on various LT and NT boards for 7302/7360 PON access network elements.
- Evaluated and ported Gpon software features from 7342 to 7360 and completed CLI portion of PON-Utilization feature for 7342 and 7360.
- Designed LNP database for STP or Next Generation Signaling Server project.
- Owned change requests for Base Station Channel Group ORJ for Mobile Switching Center (S-12), coding in CHILL language and fixed field reported bugs.
- Trained offshore team at project wind-down and transferred ownership of features.

CERTIFICATIONS

FULL STCK FLEX Coding Boot Camp, at UNC Chapel Hill (Graduating in Oct 2020)

JAVA Programming, Universidad Carlos III de Madrid via Edx. (2020)
IT.1.1x: Introduction to Java Programming 0f6aa69bd9644f2187d619f2aa20c919
IT.1.2x: Introduction to Java Programming a72e832de1554cf7a1d4ea4a8f6f31b3
IT.1.3x: Introduction to Java Programming a683c9c708e24857bdb388185c9e187a

EDUCATION
Master of Engineering (ME), Electrical Engineering, Indian Institute of Science, Bangalore, India

Bachelor of Science (BS), Physics, Voorhees College, Vellore, Tamil Nadu, India