

PREETHA KV

SR. SOFTWARE ENGINEER

A highly industrious & dedicated individual with a Master's Degree in Embedded System and Wireless Technology and **9+ years of experience**; earned trust of clients & team through experience and proven delivery of projects within time, budget & quality parameters

ABOUT

- **Talented Software Development Engineer** having passion to build & successfully deliver complex, scalable, resilient Software Systems while maintaining a constant customer focus
- **Offering 9+ Years of experience** in Product Development & Design across domains like Server Applications and Security Products with expertise in **Networking and Security Domain (PKIs, Hardware Security Modules (HSMs), IPSec)**
- Championed in all phases of **Software Development Lifecycle (SDLC)** right from requirement analysis, documentation (functional specifications, technical design), coding and testing (preparation of test cases along with implementation) to maintenance of proposed applications
- Exhibits strong technical skills in **Java & C Programming; TCP/IP and Layer-2/Layer-3 Protocols Networking**
- Credentials in driving mid to large-scale projects and offshore/onshore development models using **Agile Scrum Methodologies**
- Good communication, analytical & problem-solving skills, quick learner, self-initiative, responsive and responsible

TECHNICAL SKILLS

- **Programming:** Java, C, Go, Flutter
- **Networking:** TCP/IP, Layer-2/Layer-3 Protocols
- **Security Domain:** PKIs, Hardware Security Modules (HSMs), IPSec, TLS
- **Scripting:** Shell, Python
- **Database:** H2, MySQL
- **RESTful API Interfaces:** JSON, XML
- **Others:** Docker, Kubernetes, Google Cloud Platform Algorithm Implementation

AWARDS & RECOGNITIONS

- **Women Achiever** of the year for 2017 and 2018 at Nokia Technologies
- **Spot Award** for excellent performance in Auto Trace Project at Dell Services, Bangalore
- **Recognition Award** for excellent performance in DTS Data Extractor Project at Microchip Technologies, Bangalore

PROFESSIONAL ENHANCEMENTS

- **Real Time Embedded Systems Certification** at Partha Infosystems (Unit of Knox Innovation), Bangalore 3
- **Workshop on Android Mobility** organized by PhilipsManipal
- **Workshop on AVR and ARDUINO Microcontrollers** organized by IEEE Manipal

CONTACT

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CORE COMPETENCIES

- Software Development
- Product Development & Design
- Operational Improvements
- Client Engagement
- Requirement Analysis
- Feature Development
- Platform Architecture Enhancement and Development
- Security Threats & Bugs Identification / Fixing
- Technical Documentation
- Troubleshooting / Root Cause Analysis

ACADEMICS

2011-2013: Master of Science: Embedded System and Wireless Technology from Manipal University, Manipal

2005-2009: Bachelor of Engineering: Electronics & Communication Engineering from V.T.U., Nitte Meenakshi Institute of Technology, Bangalore

CAREER OUTLINE

Software Engineer

Digital14 (DarkMatter), Abu Dhabi, UAE | Since Jul'18

Currently working as Software Engineer and evangelizing professional software engineering practices & best practices for the full software development life cycle, including coding standards, code reviews, source control management, build processes, testing, and operations.

Technologies: Java/J2EE, Microservice Architecture, JAX-RS (Rest Easy), CDI, MySQL, PKI, TLS stack, hardware security model (HSMs), AES/HMAC, Kubernetes, and Flutter Framework

Key Deliverables:

- **Software Development:** Contributing to the architecture, design patterns, reliability and scaling of new and current systems; implementing software development strategies to build internally or work with external vendors to develop new or enhance existing features of products
- **Cross-functional Collaboration:** Communicate with users, other technical teams, and senior management to collect requirements, describe software product features, technical designs, and product strategy

Highlights:

- ✓ **Features Design & Implementation:** Designed & implemented Federation, File Transfer, and Rejection Logic for proprietary ultra-secure communication KATIM Platform for services such as Messenger, EMAIL, VC, etc.
- ✓ **Data Diode Design and Implementation (Client- Server Application):** Designed & implemented secure and lightweight Data Diode for securely transferring data from public to private network
- ✓ **Extra Layer of Security Addition:** Integrated proprietary security library into backend platform and ensured data-at-rest
- ✓ **Tool and Scripts Creation:** Developed log management for Cloud instances, Data Generator Tool and certificate provisioning to debug & troubleshoot production issues and increase productivity of QA & Dev Team
- ✓ **Old Code Bases Modularization & Updation:** Modernized development standards, boosted performance and improved functionality

Technical Lead Software Developer

Nokia, Bangalore, India | Nov14-Jul'18

Technologies: C, Core Java, Python, Open SSL, TCP/IP, Layer-2/Layer-3 Protocols

Functioned as a part of System Analyst Team for Nokia Proprietary Operating System Platform (Flexi Platform). Led all phases of software development life cycle including analysis, design, development, deployment and maintenance of web applications.

Highlights:

- ✓ **Improved functionality of platform architecture** with respect to networking subsystem by refactoring old code base which led to gain expertise in 6wind fast path implementation and network security protocol

Platform Developer

HCL Technologies, Bangalore, India | Jul'13-Nov'14

Technologies: C, Core Java, Python, Free BSD, KQueue, Open SSL and Perforce

Supported in managing overall SDLC viz. scope analysis, requirements study, design, development, testing, rendering application enhancement support while maintaining coordination with stakeholders & providing them with regular updates about the project. Worked in an Agile service implementation and distributed environment.

Highlights:

- ✓ **Enhanced & maintained platform architecture for Cisco Web Security Appliances** using C and Python Coding on Async OS
- ✓ **Improved performance** through integration of KQueue with platform using Python and C Collaborator

PRIOR EXPERIENCE

Post Graduate Intern

Microchip India Pvt. Ltd., Bangalore, India | Jun'12-Jun'13

Technical Analyst Senior Associate

Dell, Bangalore, India | Feb'10-Jun'11

Intern

Indian Telephone Industries, Bangalore, India | Jun'09-Feb'10