**Summary**

Software developer and technologist with over 15+ years of experience (Samsung, GE). Strong skills in C, C++ programming and legacy application, and platform migration. Intermediate skills in C#, database, front-end programming, Cyber Security, and IT infrastructure management. A self-motivated and mature engineer who worked with cross-functional teams and managed client relationships while solving low-level systems issues in fast-paced environments.

**Technical Skills**

List of technical skills – Expertise to Learner (10,000 hours to 10 hours)

|  |  |
| --- | --- |
| **Competency Area** | **Tools and Technologies** |
| Core Programming | C, C++ (C++14, C++17), C#.Net, PowerShell, Python (learner) |
| Design & Architect tools | Agile Rally (similar JIRA); IBM Rhapsody UML, Visio; MVC, MVVM |
| Cyber Security | Risk Assessment, STRIDE model, Pen Testing |
| Front-End Programming | WPF, WinForms, MFC, Win32 API, ASP.NET (Microsoft Technologies) |
| Dev, Build, Test & Integration | Visual Studio, XCode, Vi; Micro-Test; Mercurial, GitHub, TFS, Perforce; |
| Database | MS SQL, Oracle, MongoDB |
| IT Infra administration | Synology DSM, Windows Server 2016, Windows Active Directory, DNS, VPN |
| Operating Systems & Platforms | Windows, iMac, Linux, Microsoft Azure Cloud |

**EXPERIENCE SUMMARY**

**HALCO Software Systems Ltd. May 2018 to present**

**Sr. Software Developer Vancouver, BC**

* Analysed existing legacy software systems and developed roadmap and strategic execution plan for new language and platform migration (Fortran to VC++ and to latest VC2019).
* Re-defined monolithic application into components, modules and successfully migrated to new platform by rewriting new code and doing lots of refactoring.
* Re-assessed existing IT Infrastructure and created efficient automated, cost-effective backup, network domain management and security system.

Skills & Competency highlights: C++, C#, Swift, UML, MVVC, github, Project Management, Agile

**Samsung Electronics Ltd. (R&D) Jul 2014 to Nov 2017**

**Sr. Engineer and Project Lead New Delhi, India**

* Lead a team of five engineers and developed software modules for Samsung DTV power consumption and measurement systems.
* Managed a cross-team of iOS and android SDK developers for Samsung SmartView. Planned and facilitated quality and tollgate reviews, Agile scrum planning, requirement, and design reviews.
* Owned SmartView SDK release and publishing to GitHub for Samsung Developers Community.
* Researched and developed iOS SDK release to community as Cocoapods pod which is still followed.
* Achieved Advanced level in online Samsung Software Competency Certification using C++ and algorithms.

Skills & Competency highlights: C++, C#, Swift, UML, MVVC, github, Project Management, Agile

**General Electric (GE Energy) June 2010 – Jul 2014**

**Lead Engineer and Scrum Master, Hyderabad, India**

* **Designed and Developed** standalone and enterprise software modules for Control System Configuration and SCADA comprising of embedded controllers networked with IO sensors at multiple network layers and electrical and mechanical equipment present in power generation sites.
* **Lead and transitioned** core development team from waterfall to cross-functional, self-organizing Agile **Scrum team** delivering with highest capacity and consistency as **global Scrum Master**
* Worked in **DevOps setup** by rigorously following Lean Agile, Test Driven Development (TDD), Continuous Integration (CI) and Continuous Deployment using tools as Micro-Test, TFS, Coverity and memory Profiler
* **Facilitated Scrum events** as-- daily Scrum meeting, Sprint/Iteration planning and review, Release planning and demo, retrospective; removed team impediments and viewed as passionate Agile advocate
* **Owned legacy controls software suite**—review field issues, troubleshoot in power plant setup, manage build and coordinate for release with **highest level of sense of responsibility and accountability**
* **Wrote software modules** for Distributed-IO, Controls Migration, Shared-IO, Configuration-Management
* Mentored a group of college interns to develop project using Azure cloud and Agile Rally (like JIRA)
* ***Technologies***: C++, C#, WPF, WinForms, MVP, MVVM; SQL; Network security; Azure cloud; Rally (JIRA)

**Lead Engineer, General Electric (GE), Hyderabad, India Jun 2008 – May 2010**

* **Developed** Unified HMI features, which involves merging of legacy turbine controls system software with next generation software developed using Microsoft C# and .Net framework
* **Developed webpages** and server-side code for Onsite power plant monitoring & diagnostics application
* Researched and developed client application using OPC protocol for GE Plant communication platform
* Achieved rewards for leading “HealthAhead” initiatives by conducting Yoga and Meditation sessions
* ***Technologies***: C, C++,MFC, Win 32 SDK, ASP.NET, HTML, Java Script; OPC, Modbus

**Engineer, General Electric (GE), Hyderabad, India Sep 2005 – May 2008**

* Designed and developed complex Global Alarm for SCADA program with six sigma performance quality
* Enhanced and fixed bugs for various Turbine Control Interface (TCI) configuration and controls software
* Rolled out Day Light Saving (DST) changes to worldwide GE plants with guidelines and script patches
* ***Technologies***: C, C++, MFC, Win32 API, Socket Programming, multithreading, Windows Services

**Staff Scientist, C-DAC (Formerly NCST) Mumbai, India Sep 2001 – Sep 2005**

* Performed research activities in Expert Systems, Case Based Reasoning and Data Mining (AI fields)
* Developed and ported Linux based Vidwan shell to Windows platform; developed filtering modules for Mulyaankan tool which was an anomaly detection system used heavily for fraud detection in imports
* Learnt and used C, C++, Win32 API, MFC, SQL, Oracle database

**EDUCATION**

* Master of Engineering in Computer Science - BITS, Pilani, India **2013**
* Bachelor of Engineering in Computer Science - NIT, Nagpur, India **2000**

**TRAINING and CERTIFICATION**

* Certified Scrum Master from UBC Sauder School, Vancouver, Canada **2018**
* Samsung Advanced Software Competency (Programming challenge),Delhi, India **2016**
* GE “Change Acceleration Process” (Change management strategy),Hyderabad, India **2012**
* Certified in “Agile Product Development”, GE, Hyderabad, India **2010**
* GE Six Sigma Green Belt, Hyderabad, India **2009**

**LEADERSHIP SKILLS**

* Over 5 years’ experience in manging project throughout its lifecycle from requirement gathering, planning, design, implementation, testing and delivery as project lead and scrum master
* Capable of facilitating continuous learning in order to realize self-potential and growth in the interest of organization by virtue of positive attitude, knowledge and relevant skills
* Proficient in enhancing performance of the project with drive and passion committed to the highest levels of personal excellence and integrity