Shweta Kirave

24KStargaze, I, Flat No. 101, Near windmill society, Bavdhan, Pune-411021. Mobile(+91) 9860433483

E-mail: saishwe@gmail.com

In quest of professional enrichments in software development arena with skills in C++, C#, Python, Java.

PROFESSIONAL SUMMARY

- 10+ years of experience in software development using C++, STL, C# and Design Patterns.
- Technically proficient in STL, Win32 API, Design Patterns and Advanced C++.
- Adroit in mapping the requirements, custom designing solutions & troubleshooting code issues.
- Participated in all phases of software development life cycle on large projects (more than 10 people, longer than 6 months, multi-cultural environment, co-located as well as distributed teams).
- Zero field defect deliveries in many projects.
- Good presentation, communication and writing skills.
- Proficient in SVN, Synergy and GIT version controls.
- Worked in static and dynamic code analysis using parasoft.
- Worked Scrum/Agile development methodologies.
- Pursuing MS – IS in ML from University of Arizona.

TECHNICAL SKILLS

Programming Languages	:	C++, C++11, C#, STL, Java, Python
UI Designing Technology	:	Win32 SDK, MFC
Operating System	:	Windows XP, 7 and 10
Platforms	:	MS Visual Studio and Eclipse
Others	:	Multithreading, SDLC, OOP, UML, OOD, SOLID Principles

CAREER CONTOUR

Company	**Designation**	**Duration**
Siemens Digital Industries Software	Software Engineer Advanced	July 2022 - Present
Hitachi Vantara	Senior Software Development Engineer	Dec 2021 - Jun 2022
Siemens Technology and Services Pvt. Ltd.	Software Engineer	Nov 2017 - Dec 2021
Capgemini	Associate Consultant	March 2017 - July 2017
iGATE Computer Systems Ltd.	Senior Software Engineer	Jan 2011 - July 2014
Cybage Software Pvt Ltd.	Software Engineer	Aug 2010 - Jan 2011

Accountabilities:

- Enthusiastic developer to develop good quality and performance efficient application.
- Requirement gathering, system analysis and finalization of technical / functional specifications.
- Defining best practices for project support and documentation.
- Designing, developing, testing, troubleshooting, and debugging of the applications.
- Responsible for management of devices and regular project backup procedures.
- Cooperating & communicating with other team members for efficient project work.

Project at Siemens Digital Industries Software:

Simcenter 3D

Simcenter 3D is comprehensive, fully integrated CAE solution for complex, multidisciplinary product performance engineering.

Worked on enhancing features of orthogonal pair display in preferences, coordinate system display, and projected shell based on coordinates. I have successfully enhanced UI consistency for selection of basic unit systems in all modules. Along with enhancement worked on major PRs from customer and fixed tests to verify PRs. I have suggested remastering of tests to testing team to minimize the PRs and improve quality of deliveries.

I have worked on spikes such as reading from Solver and showing in tooltip on post views of post-processing, display of Csys on legends of post view display and all result manip commands, showing Csys transformation for shell projections/resultants, and showing tooltip for inferred units while importing results.

Refactored code to use new interface to read and use all basic units for results imports across modules.

Responsibilities:

- Currently learning and understanding the software by following steps from manual.
- Actively participated in release end manual testing and raised few enhancements and defects.
- Actively working and supporting emerging new customer by understanding, communicating with to resolve requests and defects raised by customers.

Project at Hitachi Vantara:

Ops Center Protector

Ops center Protector provides a Modern, holistic approach to data protection, recovery & retention. It supports a wide range of data storage targets, including repository, block, and file base storage.

I have worked on filtering MSSQL Server Databases based on patterns while policy creation to snapshot/backup databases based on result on patterns matched on databases.

Responsibilities:

- Understand the existing system for MSSQL Server.
- Learn about features like creation of Dataflow, Policy, Backup and restore.
- Successfully implemented filter on databases.

Projects at Siemens:

Radio Block Center

The radio block center is used in mainline to get the movement authority. The various packets, telegrams and messages will be sent over network to train units. The interlocking and EVP data is used to calculate MA. The packet data creation is done as per UNISIG standard. The all quality checks and documentations are done to adhere to SIL4 checks.

Data Preparation

The signaling data is prepared using the tool and uploaded to processors in the form of binaries. The signal engineers prepare the stations route which will be input to the tool. The modules are added for input output mnemonics. The signaling logic is created using the mnemonics and added into binary files after validating the data. The slots which have modules to be inserted into backplane have the configuration created by tool.

Responsibilities:

- Understand the existing system and enhance for new features.
- Collaborating with partners for feature discussion and understanding overall system.
- Understand and develop the tests in TDL.
- Share and ramp up new team members for rail domain knowledge and culture.
- Enhanced the Find and Replace functionality by designing, developing efficient method.
- Enhanced command line integration test.
- Enhanced existing tool by porting into C# technology. • Review the code for code standard and performance.

Project at Capgemini:

Tube License

The service engineer can generate License code for Tube License. The XML and INI file are provided to generate license for product. The Product name, date, system information is used to encrypt for license code generation. The three-level encryption is done using Windows APIs. The verification tool is developed to verify license code generated by taking inputs from user. The generated License code is saved into XML file.

Responsibilities:

- Creating design documents to for approach taken to create License code.
- Implementation of new DLL and EXE to generate and verify output.
- Review the code for code standard and performance.

***Projects at iGATE**:*

MINT

The goal of TMSC CT-MW system is to provide powerful post processing data of CT scan applications to thin client over network. The CT-MW system read patient's scan data which is in NEMA format. The NEMA format data can be transferred to other distributed clients. The transformation happens by converting NEMA data to DICOM data over network and client's stores data into NEMA by converting from DICOM.

Responsible for fetching NEMA data from MINTServer and converting into DICOM data in the library by adding new APIs. The converted data was sent to MINT Client by HTTP request in XML format. Created metadata for existing patient data, image and creating new patient data along with updating existing patient data. In further to this, I have efficiently enhanced functionalities like other type of CT data, performance improvement, synchronization for multi-user, consistency with CT scan data.

Segmentation Data Storage

The goal of Segmentation storage in TMSC CT-MW system is to store 3D-Object data i.e. segmentation data into NEMA format. The 3D-object data created at SCP in NEMA format after receiving data from CT scan. The users i.e. SCU can view the details at thin client side.

Responsible for fetching NEMA data from SCP and converting into DICOM data by creating new DLL. The NEMA data buffer was created by retrieving data from shared memory. The NEMA buffer was transferred into DIOCM form and stored into DICOM stream using MergeCOM tool. The MergeCOM message ID was created from DICOM stream. The DICOM viewer tool used to verify the message ID for DIOCM tag values, VR, and object data.

On-Screen KeyBoard

The On-Screen Keyboard is created by using Windows Keyboard for client's application. The Microsoft's hooking APIs called to use Windows Keyboard.

Created the test cases to check the working of On-Screen Keyboard on all screens of client system.

TriloByte

The TriloByte is small machine which monitors and records ECG information of patient. The Cardiac Science Corporation is extending and testing the functionalities of TriloByte for latest environments for further extensions.

I have understood the functionality of existing TriloByte machine, and the code implemented. Transferred the code on Windows 7 and compiled it successfully by removing warnings those are necessary to show correct data on ECG machine.

Responsibilities:

- Implementation for DICOM data creation from NEMA for 3D-Object data.
- Implementation for converting MINT format data from DICOM format data.
- Implementation of requests received from MINT Server.
- Identification and implementation for performance improvement for implemented functionalities.
- Manual unit testing and validation checkup.
- Manage feature enhancements and bug fixing.
- Creation of new DLL which implements the DICOM conversion APIs.
- Verification of output using DICOM viewer tool.
- Understanding the various data types stored in CT-MW.
- Unit testing, Code review and integration testing.
- Understanding the various screens implements in client system.

- Creation of functional test cases.
- Gathering and analysing requirements through client interaction.
- Modifications in code to support Windows 7 environment.

***Project at Cybage**:*

The Washington Post

The Washington Post is an e-Newspaper which supports web application which allows intelligent management of contents. The system involves management of contents based on type such as health, food, Hollywood, politics, entertainment, etc. It provides multilingual and multi-platform support. Participated in testing e-Newspaper on various operating systems, mobiles, and browsers.

Responsibilities:

- Manual testing on various operating systems, browsers, etc.
- Participating in client communication in discussion to fix defects in upcoming development phase.

EDUCATIONS

2023 - 2025	Master of Science in information Science – Machine Learning (Pursuing)
2010	Diploma in Advanced Computing C-DAC (Passed with a first class)
2004 - 2009	Bachelor of Engineering – Computer Sci. & Engg. (B.E CSE) (Passed with a distinction)
2002 - 2004	HSC. (Standard 12th) *Secured 63.50%*
2001 - 2002	SSC. (Standard 10th) *Secured 71.33%*

PERSONAL SNIPPETS

Date of Birth	:	29th May 1987
Hobbies	:	Cooking and Yoga
Passport No.	:	J3396327
PAN	:	BJQPK5104D

Professional and Academic referrals available on request.