

## SUMMARY OF SKILLS

### LANGUAGES

- **Proficient:** C++, C#
- **Intermediate:** T-SQL, LINQ, XAML, HTML/CSS
- **Familiar:** Shell Scripting, JavaScript, Python

### TECHNOLOGIES

- **Proficient:** WPF, ODBC, Winforms, ADO.NET
- **Familiar:** UWP, Azure Mobile Service, WCF, ASP.NET

### DATABASES

- **Proficient:** Microsoft SQL Server, Teradata

- **Familiar:** SQL Azure

### OPERATING SYSTEMS

- **Proficient:** Windows, Linux
- **Intermediate:** Mac, Z-Linux [390]
- **Familiar:** AIX, HP-UX-PA, HP-UX-IA, Solaris Opteron, Solaris Sparc

### APPLICATIONS

- **IDE:** Visual Studio, Qt Creator, Eclipse, Matlab, QNX Momentics, Code Blocks
- **Design:** Photoshop, Premiere, Dreamweaver, CorelDraw

### KNOWLEDGE

- Solid quantitative background
- Strong understanding of OOP concepts

### NON-TECHNICAL

- Disciplined with a strong sense of responsibility
- Highly adaptive and quick learner, with curiosity to explore new technologies
- Ability to work in a team and conduct rational reasoning
- Excellent communication skills
- Confident and optimistic

## TECHNICAL WORK EXPERIENCE

**SIMBA TECHNOLOGIES**, Vancouver, Canada

[May 2015 – Present]

### COMPUTER SCIENTIST

C++

- Implemented and developed new features for the ODBC Driver
- Designed and coded in agile development practices according to the application requirements
- Generated unit tests and enhanced the existing test suite for the new features
- Executed regression tests and validated ODBC Driver builds across 9 different platforms

**WIPRO TECHNOLOGIES LIMITED**, Bangalore, India

[Dec 2012 – Aug 2014]

### AUTOMOTIVE HMI DEVELOPER

Qt C++

- Developed the Entertainment and VR module of the HMI for a renowned automotive client
- Recognised for client service excellence and exceeding expectations and accurately identifying the root cause of HMI freeze showstopper issue

### INSTALLATION PACKAGE GENERATOR

>- C#

- Reduced package creation time by 73%, thereby increasing efficiency and decreasing effort
- Programmed generation of dynamic runtime batch file through C# using 7-Zip CLI

### ONSITE MACHINE BOOKING TOOL

XAML C#

- Hosted a WCF service on a managed windows service
- Integrated Winforms NotifyIcon class into WPF notifying each end user of their booking
- Designed UI in XAML using "MahApps.Metro" toolkit for WPF, improving user experience
- Developed LAN accessible system replacing the manual booking system, decreasing effort and time by 83%

### COBS DECODER TOOL

Ps C#

- Published a research paper on "Implementing COBS ZPE in C#" (*IRAJ SCIEI-IACEE-2013*)
- Implemented frame level detail in the application converting log signals into meaningful information
- Researched "Consistent Overhead Byte Stuffing" compression algorithm to decode the COBS encoded data

### ONLINE FIXED DEPOSIT SYSTEM

SQL C#

- Programmed time triggers in SQL Server to automate the fund transfer after FD maturity
- Implemented registration form using code validators and captcha eliminating incorrect input

## TECHNICAL WORK EXPERIENCE

### MISCELLANEOUS



- Administered and maintained Ubuntu server for code analysis via DeepCheck software
- Automated source code uploading to DeepCheck using WPF, 7-Zip and C# reducing uploading errors
- Examined results from the DeepCheck Server for reporting manager and prepared static analysis report
- Automated downloading of hourly work logs using JavaScript and iMacros saving 85% time and effort

## PERSONAL PROJECTS

### WINDOWS 10 UWP APP



- Demonstrated the Adaptive UI capability using visual states and adaptive triggers
- Implemented and deployed the UWP app across Windows 10 PC, Surface, Mobile, Raspberry Pie 2
- Consumed an Azure Mobile service, connected to an Azure SQL Database

## TEACHING ASSISTANT



**SIMON FRASER UNIVERSITY**, Burnaby, Canada

CMPT 120 Introduction to Computer Science and Programming in Python

[Sep 2014 - Apr 2015]

CMPT 126 Introduction to Computer Science and Programming in C++

[Jan 2016 - Apr 2016]

- Marked the class projects, midterms and finals
- Reported to the supervisor regularly both in meetings and via email
- Gave valuable suggestions to the supervisor regarding new "Peer Grading System"
- Conducted labs weekly and helped the students with better understanding of OOP concepts

## ACADEMIC PROJECTS



- Implemented machine learning concept lazy learning for multi-label classification
- Automated configuration of Linux Servers like NFS, DHCP and APACHE using shell scripting
- Designed Contact Book Windows application using JAVA Swings helping the user easy track of the contacts
- Programmed Console Management System using C aimed at helping students register for summer courses

## ACHIEVEMENTS

- Completed the Python programming course at codecademy.com [Dec 2014]
- Vice President, CS Graduate Student Association, Simon Fraser University [Sep 2014]
- Felicitated with "Feather in My Cap" award for significant contribution in HMI design [May 2014]
- Designed album, Facebook, YouTube cover for Actor/Artist Amrinder Gill [Jan 2014]
- Secured 1st position in Wipro Microsoft Technologies PRP training with 94% [Mar 2013]
- Designed promotional posters and organized the college cultural Fest "Parivartan" [Nov 2011/2012]
- Acted as chief placement coordinator for my batch ensured fair and smooth conduct [June 2012]
- Recommended by India Air Force SSB, Dehradun as Flying Officer [Mar 2012]
- Organized College's 1st TechFest "Enquesta" and designed website using Photoshop [Oct 2011]

## EDUCATION

**SIMON FRASER UNIVERSITY**, Burnaby, Canada

- Master of Science – Major in Computing Science

**PUNJAB TECHNICAL UNIVERSITY**, Punjab, India

- Bachelor of Science – Major in Computing Science