

# SHRUTI SONAWANE

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## EDUCATION

**Arizona State University**

**Tempe, AZ, U.S.A.**

**Degree expected: May 2017**

- Master of Computer Science (GPA: 3.61/4.00)

**University of Mumbai**

**Mumbai, MH, India**

**August 2011**

- Bachelor of Computer Engineering with First Class (69.45%)

## EXPERIENCE SUMMARY

**Arizona State University (ASU)**

**August 2015 to present**

- Studying at ASU I have gained insight into areas such as data structures & algorithms, software design, X86 and MIPS assembly language programming, TCP/IP protocol stack, application, network and web vulnerabilities and analysis, applied cryptography and web application development & responsive design.
- Currently work as a teaching assistant for the course Business Database Systems at ASU.
- **Projects worked on:** Developed an **App Store** involving data structures like hash tables, linked lists, binary search trees in **C++**, Keccak Hash algorithm in **Java**, **REST** and **HATEOAS** web services in Java, simple backdoor web server, simple worm code to discover trusted hosts on a machine, Blind SQL injection exploit automation tool in **Python 2.7**.

**Infosys Limited**

**September 2011 to July 2015**

- Gained experience in analysis, design and development of Web-based and Windows Console applications using **.NET technologies (ASP.NET and ADO.NET)** and **C#**, following the Agile methodology.
- Worked extensively with **SQL Server**; Well-versed with **T-SQL** and developing various database constructs like tables, views, stored procedures, functions etc. Also worked with **Oracle 10g** and **TOAD**.

Also worked with **SQL Server Integration and reporting services**, MS Access & VBA based applications.

## SKILLS

**Languages:** C#, C/C++, Java, T-SQL, Python 2.7, BASH, MIPS, X86 assembly, HTML 5, CSS 3, JavaScript, JQuery.

**Technologies:** .NET Technologies (ASP.NET, ADO.NET), SSIS, SSRS, JAXB, REST and HATEOAS web services.

**Operating Systems:** Windows 8.1/10, Ubuntu 14.04/Linux

**Databases:** SQL Server 2005/2008/2012, MS Access 2007, Oracle 10g

**IDEs:** Visual Studio 2010/2012, Eclipse, SQL Server Management Studio, BIDS, Netbeans.

**Other Tools:** Team Foundation Server (TFS), Maven, Make build tool, objdump, ltrace, strace, GDB, WireShark.

## PROJECTS

- **SQL Server Integration Services based automations:** Designed 4 SSIS automations that query a SQL Server database, create an Excel report for the extracted data, and send the report as an attachment to users. This helped reduce the Brit Insurance team's manual effort by 1600 minutes a month.
- **Daily Exception TPU Report Automation:** Designed an intricate SQL stored procedure that queries the database and pulls exceptions caused by invalid insurance policy details. Also designed an SSIS package which runs the SQL procedure and creates an excel report at a specified shared location on a daily basis.
- **Infragistics to Telerik based UI:** This project dealt with the upgrade of 4 ASP.NET web applications that used classic ASP and Infragistics (9.1) UI controls to Telerik RadControls for ASP.NET and AJAX in order to provide multi-browser compatibility.
- Developed **Bloodstock Aggregates**- an MS Access based standalone application that handles bloodstock (race horse) insurance.
- Assisted in the development of .NET based **Morning Check automation tool** that checks the health status of around 30 Brit applications and reports the status of those applications to the respective users via auto generated emails every morning.
- **Time table & Attendance management system:** Designed as a WPF application with a SQL Server backend, this system would take as input available professors, classrooms, courses and semesters and produce a clash free class schedule. The system would also generate the students' attendance records for a particular class and represent the same in a graphical UI (designed using Microsoft Visio).
- Had developed a simple UI for the game of Ping-Pong using C++ as an engineering class project for Multimedia System Design.

## AWARDS

Was awarded the Brit Insurance recognition award by Nigel Mayer, COO of Brit Insurance and Sheel Sawhney, CEO of Brit Global Specialty.