

Josephine But

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Profile

- Nine years of professional experience as a Software Developer and QA Engineer.
- Solid backgrounds in software design, development, implementation, testing and documentation.
- Strong problem solving and analysis skills and results oriented with strength in organization and interpersonal skills.
- Self-motivated and an innovative thinker, consistently pursuing new challenges to stretch abilities.

Technical Skills

Programming

Vue, Nodejs, express, Python, Java, JSP, Servlets, JDBC, XML, HTML, CSS, JUnit, HttpUnit

Languages

Ant script, C, C++, Javascript, Unix Shell Script, Linux Shell Script, Oracle script, Perl, SQL, 4GL, ESQL, PL/SQL

Database Systems

mongodb, Mysql, SQLite

Tools & Platforms

JDK 1.5, J2EE 1.4, Apache Http Server, Apache Tomcat 4.0 & 5.0, JRun 1.3., Eclipse 3.1.x, Perforce, Bugzilla, Unix cvs, ArgoUML, Jmeter, JBuilder 4, Ant 1.5, HTTPUnit 1.5 & 1.6, Apache POI, Oracle Designer/Developer 2000, ColdFusion, UNIX(SCO & Solaris), Window 98, 2000, XP, NT/95/97/98, Linux (SUSE & Red Hat)

Work Experience

Advanced Study

Sept, 2020 - March, 2022

Master of Science in Software Development, Boston University, MET
(GPA : 3.76)

Courses are finished:

Information Structures with Python

- This course covers the concepts of the object-oriented approach to software design and development using Python.
- Project - Credit card analysis tool provides the expense in each store and each category based on the credit card statement provided using Python

Data Structures and Algorithms.

- This course covers and relates fundamental components of programs. Use various data structures to solve computational problems, and implement data structures using a high-level programming language.

- Project - To design and implement two heuristic algorithms to find a shortest path in a graph using Java.

Advanced Programming Techniques.

- Use Java to illustrate the Polymorphism, libraries, method specifications, large-scale code management, concurrent programming, functional programming and programming tests.
- Project - ResumeBuilder to let the user to build the resume using Java, RUML Diagram(UML plus Sequence diagram) and SQLite.

Software Design and Patterns

- This course covers the Software design principles, the object-oriented paradigm, unified modeling language, creational, structural and behavioral design patterns; OO analysis and design, Refactoring using Java, GitHub, GIT and UML.
- Project - VehicleBuilder to let the user to build the vehicle and add the package to the vehicle using Java, Design Patterns, Maven, GIT and UML.

Software Engineering

- This course covers topics include Software Development Life Cycle, Requirements analysis, software design, programming techniques, refactoring, testing, as well as software management issues.
- A team project - MyDietHub to let the users to regulate their caloric intake. A web application that helps people to calculate the calories of the food they eat to help them to fight obesity using Flask, SQLite, WireFrame, USDA API, Agile methodology , Github (BUMETCS673OLSum21P4) and GIT to develop this application.
- GitHub link is available upon request.

Mobile Application Development

- This course covers the principles and issues associated with mobile application development using Android as the development platform. Topics covered will include Android application components(Activities, Services, Content Providers and Broadcast Receivers), ICC(Inter-component Communication), UI design, data storage, asynchronous processing and Android security.
- Project - MyFoodManager to let the user to regulate their food buying using Java, SQLite, Android Studio, Gradle and GitHub.
- GitHub link is available upon request.

Web Application Development

- This course focuses on building core competencies in web design and development. It begins with a complete immersion into HTML5 essentially and

Dynamic HTML. I am exposed to CSS, as well as Dynamic CSS. The fundamentals of JavaScript language including object-oriented Javascript and ES6. It also covered XML, JSON to transfer data from client and server. It also covered the topics of using Vue for development.

- Project - I build a portfolio website using HTML5, CSS3, javascript and Vue.js. The portfolio summarize my biography, education, resume and skills. There is a contact form that the user can fill in and the form has input validation feature. It is a responsive website and the navigation bar, images, colors, font size will be changed based on different size of the screen. I use grid and flex and different CSS properties to do my layouts. And I added some ES6 to my javascripts and HTML pages.
- I submitted it to my GitHub account and GitHub link is available upon request and I deployed it to here : <https://vigilant-neumann-1f4d3d.netlify.app/>

Server-Side Web Development

- This course concentrates primarily on building web applications using Node.js/ express/mongodb and PHP/MySQL. It covered in depth the following topics: PHP, MySQL, Object oriented PHP, PHP MVC, Secure Web Applications, Node.js and MongoDB.
- Project - I build an online bakery store called Sweet Bakery using node.js, express, javascript and mongodb.
- I submitted it to my GitHub account and GitHub link is available upon request.

July, 2020

University of Minnesota, Introduction to Software Testing(from www.coursera.org)
Grade: 99%

April , 2014

University of Maryland, College Park – Programming Mobile Applications for Android Handheld Systems (from www.coursera.org/) Grade: 100% with distinction

Dec 20, 2013

Johns Hopkins University – Computing with Data Analysis (from www.coursera.org/)
Grade: 100% with distinction

Programming in R and to use R for reading data, writing functions, making informative graphs, and applying modern statistical methods.

April 4, 2013

Rice University – An Introduction to Interactive Programming in Python (from www.coursera.org/) – Grade: 99.3% with distinction

Some projects that I did in this course:

Stopwatch, Pong, Memory, Blackjack and Spaceship, they can be found at <http://jbutprojects.blogspot.com/>

All projects are developed in Python, the projects are Rock-Paper-Scissors, Guess the number, Stopwatch, Pong game, Memory game, Blackjack game, Spaces and RiceRocks game.

- Using Event-driven programming technique to accept user input from keyboard and mouse.
- Manipulate images from a python image library.
- Apply Object oriented programming in python to develop Blackjack, Spaces and RiceRocks games.
- Leverage python libraries to enhance program efficiency

Stopwatch project:

A project that focus on combining text drawing in the canvas with timers to build a digital stopwatch that keep track of the time in tenths of a second.

Pong game project:

It's a project that focuses on Event-driven technique and leverage python libraries. It's remarkably similar to the original arcade Pong game. It is also applied a lot of motion, positional and velocity control technique.

Memory project:

It is a project that focuses on using lists, dictionaries and images.

Blackjack project:

It is a project that uses object-oriented analysis, design and implementation to develop. Classes and tile images technique are also implemented in this project.

Spaceship project:

It is a project that uses object-oriented analysis, design for development. It uses Event-driven technique, manipulate images and leverage libraries to enhance program efficiency. It is a 2D space games that is inspired by the classic arcade game Asteroids (1979). It also uses techniques such as acceleration, friction, sets, groups, sounds and animation.

Aug 2019- Jan 2021

**Eworld Solution Inc.
Technical Recruiter**

Job Description: Identify and fill job openings and keep records of applications. Communicate with the candidates and help them to fill in the job openings. Develop and implement the add-on google scripts for the management which in turns save their work in searching the candidates from one google sheet to another sheet.

Natural Convergence Inc. (Broadview Network)
Application Software Designer

2004- Nov 2007

Project Description:

Designed and developed automation tools for the design group and product verification team. Designed and developed test automation tool for the web-based administration system of a carrier grade IP telephony service. Developed test plans and procedures to WebAdmin with different web traffic to provide comparative platform performance, performance testing and product scalability characterization. Analyst the results from the tests and generate reports to the management. Developed tests and execute tests for WebAdmin against different platforms.

Tasks Performed:

- Designed and Developed test automation tool for the web-based administration system of a carrier grade IP telephony service.
- Implemented J2EE code modifications to WEBADMIN (A Struts-based J2EE web application).
- Designed and developed Kerah, a web services client of the EPI and WebTest. Applied Kerah to provision a number of large databases for Product Verification.
- Designed and developed Data Extraction Tool - Jmeter Plug-in.
- Designed and developed auto installation tool to do the auto installation of Silhouette with auto provisioning against different remote machines.
- Integrated test automation tools into the system loadbuild process against different targets.
- Designed and developed suite of tests with Jmeter for functional testing, comparative platform performance, performance testing and scalability of a web-based administration system. Analyzed the results and generated reports to the management.
- Wrote and execution of test plans, manual tests and automated tests.
- Mentor junior developers and provided guidance to them.

Technology: Java, J2EE(JSP, Servlet), Struts, XML, UML, HTTPUnit, JUnit, Ant, Jmeter, Sybase, JDBC, Eclipse, Tomcat, Window XP, Unix, Linux, Bugzilla, Perforce

Isosceles Information Solutions Inc.
Java Programmer (Contractor)

2002

Project Webtagger (Project contracted with Environmental Canada)

Project Description:

Recoded the application from ground-zero. Gathered, analyzed user requirements, added features and enhancements to apply user requirements. Deployed and installed the application in different platforms.

Tasks Performed:

- To change an application from ASP to Java.
- Add features and enhancements to WebTagger.
- Deployed WebTagger to different platforms.
- Enhanced and add new features to a web application using ColdFusion.

Technology: Java, J2EE(JSP, Servlet), JRun, XML, JavaScript, HTML, Ant, MS Access, Windows 1998, Windows 2000, Windows NT, ColdFusion

**R & D Department,
Sybridge Technologies Inc.
Intermediate Software Developer**

2000-2001

Project Description:

Ported a carrier-grade B2B Bridging Infrastructure system to Sun Solaris platform. Designed and developed new functionalities for the system. Participated in the design of sub-systems. Defined classes, interfaces, applications and implemented them based on design for a new subsystem.

Tasks Performed:

Project Expresso

- Designed and implemented multi-threading communication over piped streams application using Java J2EE.
- Developed JMS(Java Message Service) client application.

Technology: Java, J2EE(JSP, Servlet), JMS, XML, JavaScript, HTML, Oracle, Tomcat.

Project Sun Solaris Porting

- Designed and developed modules, features for inbound and outbound fax between SCO and Sun Solaris.

Technology: C, C++, Informix, UNIX script.

***Project Matriq*(Carrier-grade B2B Bridging Infrastructure)**

- Designed and developed webtofax interface.
- Implemented E-Statements for the product.
- Designed and implemented a logging mechanism.
- Implemented a daemon in Unix for handling multiprocessing.
- Rewrote remote access module from UNIX C Shell Script to C language.
- Coached junior developers and provided guidance.

Technology: Java, C, C++, Informix ESQ, UNIX C Shell Script, Window 2000, Unix.

**NewSys Solutions Limited
Software Developer/Tester(Contractor/Subcontractor)**

1998-2000

Project Description:

Collected requirements from users, analyzed them and applied them to the applications. Analyzed testing requirements and organized them into the documents. Wrote and executed test cases. Imported data and completed the data conversion from one platform to another.

Tasks Performed:

- Designed and coded NTMS using Oracle Designer/2000 (Version 2.1 & 6.0) and Developer/2000 including Forms 5.0, SQL *Plus(PL/SQL)and Reports.
- Analyzed system testing requirements developed test cases and implemented the testing for the NTMS.

Technology: Oracle Designer/2000 and Develop/2000, Forms5.0, SQL * Plus, PL/SQL, WindowsNT.

Project Description:

Project Inventory System (Year 2000 Compliance project) in **DND**

Solved the Year 2000 problem for the system.

Tasks Performed:

- Converted the Inventory System to Year2000 compliance.
- Provided testing procedures and implemented the testing procedures for checking the convection.

Technology: Oracle Developer/2000, Forms4.5, Forms5.0, SQL * Plus, PL/SQL, Windows NT

Project Description:

Project Publisher Distribution System(Year 2000 project) in **National Research Council**

Solved the Year 2000 problem for the system and solved the problem of porting data in different platforms.

Tasks Performed:

- Imported data from PC to UNIX (Oracle Application).
- Analyzed system testing requirements and developed test cases.
- Implemented test cases using ORACLE 7.0 including Forms 3.0, PL/SQL and Report in UNIX.

Technology: Oracle 7.0, Forms 3.0, PL/SQL, Windows 1998, Unix.

Project Management Department (Payment and Messaging Team) 1997-1998

Standard Chartered Bank, Hong Kong (Programmer Analyst)

Designed, coded, specified and documented the GMIS(Global Management Investigation system) and Payment and Messaging System.

Additional experience history available upon request.

Accounting and System Department

1995-1997

Svenska Handelsbanken, Hong Kong (Programmer)

Designed and coded for a Fixed Asset Allocation program. Solved the Year 2000 problem of the system. Maintained, modified, re-engineered and supported existing system. Trained and provided support to end-users.

Additional experience history available upon request.

Education

Master of Science in Software Development, Boston University, USA, 2022

Bachelor of Science(General), University of Manitoba, Canada, 1994

Certificate, Application Development Using INFORMIX-4GL

Certificate, Application Development Using Oracle 7.0

Certificate, Internet E-Commerce Development (9 months course)

Award

“Team excellence award” from Standard Chartered.