Resume of Zhou Kai

Personal Interests

- Free open source software community and its culture
- I love Linux, bash, vim, git, python, JavaScript, HTML, TCP/IP, Firefox, LibreOffice
- I'm also interested in OOP and computer science and coding

Professional Summary

- Experienced in handling full life-cycles of a project
- Experienced in software system analyzing and modeling
- Skills in testing, debugging
- Proficient in .NET Framework, 5+ years hands-on developing experience
- Database ER modeling
- Scripting, particularly PowerShell and bash
- Familiar with developing environment under Linux, 3+ years using Linux as my primary OS
- Experienced with demonstrating products to potential customers
- Handling customers feedback and requirements

Toolbox

I. Software system analysis and modeling

    i. Experienced with drawing class diagrams, flow-chats, interactive diagrams to express and analysis the design of an application

    ii. Familiar with UML 2.x software modeling tools

    iii. Experienced with technical document writing

II. Software testing

    i. Interested in detecting and fixing functional / logical bugs or system defects

    ii. Experienced with writing testing plans

    iii. Experienced with unit and integrate testing

    iv. Take advantages of the existing automatic testing tools, such as unit test framework like NUnit and so on...

III. Source-codes version control

    i. Comfortable with CVCS and DVCS, such as TeamCoherence, Tortoise SVN and Git, command-line tools preferred

    ii. Branching, merging

    iii. Code analyzing and refactoring to improve the codes quality

IV. Coding

    i. Solid skills on the **C** programming language

    ii. Proficient with the **C#** the programming language

    iii. Familiar with **Python, JavaScript, VB.NET, T-SQL, HTML(XML), CSS, Java, PowerShell, bash** programming languages or scripts

    iv. Solid skills on **WinForm** technologies, commercial software developing experience for enterprise scale software, 4+ years experience

    v. Familiar with **ASP.NET Web API** framework, handled an ASP.NET Web API project for Innosys Pte Ltd.

    vi. Familiar with **ASP.NET MVC** framework and developed a website application for LTA(the Land Transport Authority) and other construction companies. 2 year experience.

    vii. Familiar with **Powershell**, create Powershell scripts to **automate** daily development operations, especially installing update patches, manipulations on sourcecodes for testing, creating daily workspaces and so on...

Working Experience and Achievements

- ### *2013-05-14 till now(Innosys Pte Ltd @SG) as Senior Application Programmer*

1. The company develops and sells software in logistic industry

2. I am the lead of the Transport Module(TM), it consists of Trucking and Haulage sub modules as well as a Message System.

3. I initialized and handled the Messaging System for Transport Module.
   - Skills used: C#, ASP.NET Web API, IIS, SQL-SERVER
   - Features description:
     - It integrates three services: the Transport Module, the PAS(port authority of Singapore) and Growth Venture web services as a whole and provides it to logistic companies.
     - It serves as the back-end that the planner creates schedules to make use of the resources(vehicles, drivers, containers) and the drivers(as a communication protocol) to coordinate with the planners.

4. Implement the Transport planning features
   - Skills used: C#, WinForm, DevExpress, SQL-SERVER
   - Features description:
     - This feature is for our users(the planners in a logistic company), to manage the company's resources such as drivers, trucks, trailers, prime movers and containers, and make visible(graphical) schedule plans to use such resources.
     - The schedule not only displays appointments for every driver and his vehicles, but

also records his / her routines and what tasks are being carried on and the status of the tasks, and also generates reports based on the schedule and the task status.

- Our software user(the planner) can manipulate the schedule not only before the plan carries out, but can also modifies it at the meantime when the task is carring on side by side, and the stuffs on the spot will be updated via mobile phones.

- This planning feature supports multi-users.

5. Implement the Transport booking features

   ○ Skill used: C#, WinForm, SQL-SERVER

   ○ Features description:

   - This feature is for the users(who buy our software) to provide the booking system to their customers. Our users are logistic companies which have resources such as warehousing, ships, containers, trailers and trucks, their customers book those resources via the booking module provided by us.

   - We provide quotations to the customers, and the customers book the service via their quotations, after that the planner carries out the services, and the process goes to the accounting module. The reports and invoice are generated and send to the customers.

6. Implement the Transport logging features

   ○ Skill used: C#, WinForm, SQL-SERVER

   ○ Features description:

   - The logging module is to audit the critical operations performed by our software user.

   - It provides history of who login the system and performed what tasks at what point of time.

7. Automating daily operations(configurations, files manipulations, sending emails) via scripting

   ○ Skill used: PowerShell

   ○ Features description:

   - Automate the process of updating bug fixes or updates to the server of customer side who uses our software

   - Automate the process of synchronize the source codes between the VCS and local PC.

8. Any other programming related tasks

- ***2011-09-01 ~ 2013-05-01 (GeoApplication Engineers Pte Ltd @SG) as Software Engineer***

1. The company provide IT service as well as GeoTechnical services to the Singapore government as well as private construction companies.

2. The services are real-time construction site monitoring(via installing sensors on the work

sites). And the sensors of different kinds will detect and send raw data back via GSM or HTTP to our company. We calculate and analysis the raw data and provide a website for the customers to check the status of the working site.

3. I work as a programmer to develop and maintain the IT services of the company, including a real-time calculating, the data-driver website and the alarming system.

4. Implement the Real-time calculating module:
   - Skills used: C#, WinForm, SQL-Server
   - Features description:
     - Gets raw data from the sensors installed on working sites
     - Calculates the raw data according to the kind of sensor
     - Updates the results to SQL-Server database
     - Sends alarms via Email or SMS to different roles of a project

5. Implement the data-driven website:
   - Skills used: C#, ASP.NET MVC, SQL-Server, GoogleMaps API, Javascript, CSS
   - Features description:
     - The website reads data from the SQL-Server, and displays it in various charts.
     - The website provides searching functions for the user to search the reading of sensors of a certain period.
     - The website also provides data downloading features, the user can download reports and trend-charts from the website.

6. Implement the alarm module:
   - Skills used: C#, WinForm, 3rd-party API for sending SMS
   - Features description:
     - The alarm module is to send alerts or suspension alarms to the role who's in charge of the working site.
     - The alarm module is customizable, we can set different groups of people, they will receive different level of alarms via Email or SMS, they can also choose when they want the alarms to be received.

- ***2011.3 ~ 2011.9.1 Digital Power @Zhuhai, China as Developer***

Job duties:

1. Work in the back-end team for developing the server-side platform of our web cameral using VC++ and C#.NET
2. Implement a part of the GUI of our embedded portable device using Embedded VC++

Achievements

1. Worked in the back-end team for developing the server-side platform for our web camera. I implemented several functions:

   ○ Listening and accept the new user registering information
   ○ Validate the user login & logout information
   ○ After user login, I accept commands sent by the user and do operations to the commands.

2. The application is a server-client program, the client which is the web cameral will send encoded socket commands to the server side, and server side decode it, and operate on the SQL-Server database according to the commands.

- ***2009.7 ~ 2010.12 VanceInfo Technologies Inc @ Beijing, China as Scripter***

Job duties:

1. Perform G11N testing for Microsoft Windows Live Hotmail product.

2. Perform automatic testing tasks using the testing framework developed by Microsoft testing team.

3. File bugs to team lead.

4. Also write programs depending on the testing framework to perform special testing cases.

Personal Info

- **Name:** Zhou Kai
- **Nationality:** Chinese
- **Residential Status:** E Pass
- **Birthday:** 1986-10-10
- **FIN:** G5189332N
- **Passport:** 53950915
- **Educational background:** Bachelor degree from China(East China Institute of Technology)
- **Major:** Software Engineering(2006~2010)
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