

# RESUME

## Shaomin Hu

Data Specialist

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### ***Education:***

Bachelor of Computer Science in July, 1989

The Special Class for the Gifted Young (SCGY)

University of Science & Technology of China (USTC).

M.S. degree program (part-time) in computer science of  
University of Alaska Fairbanks, January, 2000 – Present

### ***Work Experiences:***

#### **1. Nov. 2001 – Present**

Data Specialist,

The Ecosystems Center, Marine Biological Lab, MA, USA

- a) Work closely with scientists providing programming support in the development and application of Terrestrial Ecosystem Models on UNIX and Windows operating systems and utilities development by C/C++, Shell Script, Perl.
- b) Data analysis using ArcGIS 8 & ArcView 3 including transferring data into GIS format data, defining coordinate system, projection, mapping, creating AML scripts, GIS data management.
- c) Data analysis using SigmaPlot.
- d) Linux Beowulf system administration including operation system installation, network configuration, account management, compiler installation, etc.
- e) Web maintenance and development by using Adobe Golive 6, HTML, JavaScript.

#### **2. Nov. 1999 – Nov. 2001**

Development/Sustaining Engineer (Developer), Alaska SAR Facility,

Geophysical Institute, University of Alaska Fairbanks, USA

- a) Responsible for configuration management for the development environment at ASF.

##### **(1) Work as Release Engineer**

- Coordinate system deliveries between ASF developers and external developers
- Manage the software release and control the source code on Unix (Solaris) using ClearCase.
- Make the system builds by using the make, gnumake utilities on the different Unix platforms.
- Install the Release builds on the operation system, automate the installation procedure by creating Shell & Perl scripts.

##### **(2) Work as ClearCase Administrator - Unix**

- Plan Vobs and Views for developers in ASF and Raytheon

- Set up and manage the parallel development environment by using branches, different configuration specification rules, etc.
  - Define and implement the development policies by using ClearCase triggers, attribute, labels, etc.
  - Troubleshoot the ClearCase system due to User's abuse or other reasons and assist the developer's ClearCase usage.
  - Reformat the Vobs and Views from the old ClearCase version and migrate the Vobs and Views from the other server.
- b) Responsible for system administration of Remedy trouble reports system used at ASF.
- (1) Work as Remedy&ARWeb Developer
- Develop new schemas for ASF by the Remedy admin tool.
  - Define the workflow by using filters, active links and escalations.
  - Maintain the Remedy applications and add new features according to the user's requests.
  - Modify the ARWeb forms or create new forms according to the user's requests.
  - Assist users to use the Remedy user tool.
- (2) Work as Remedy administrator
- Troubleshoot the Remedy and ARWeb system
  - Maintain data integrity through the application high level and the low database level by using Sybase SQL.
  - Migrate the application definitions and data between the Remedy servers.
- c) Assist in maintaining and developing software for critical ASF operational software subsystems by using C/C++, Perl, Shell scripts, including subsystem software maintenance, software development and tuning, installation and testing of new software upgrades, and development of software to support added features and functionality. Analyze, quantify and implement software repairs for internal trouble reports.
- d) Maintain user tools developed by Visual Basic including troubleshooting and adding new features according to the user's requests.
- e) Document Software development and sustaining changes for review. Document ASF engineering and software practices. Develop and document new processes.

## **2. March 1999- Nov. 1999**

Programmer & Analyst (Part-time), The Spatial Ecology Lab,  
the Institute of Arctic Biology, University of Alaska Fairbanks, USA

- a) Provide C/C++ and Fortran programming support in the development, testing and application of models on UNIX and Windows 95/NT operating systems.
- b) Work closely with scientists modeling the dynamics of high latitude ecosystem response to global change.
- c) Work with lab personnel to develop and maintain lab web by using tools such as HTML
- d) Analysis data using Transform, SigmaPlot, IDL, ULead Animator, etc.

### **3. November, 1992- July, 1998**

Software Engineer, The Department of Science and Technology,  
the People's Daily, Beijing, China

- (a) People's Daily news editor communication system. Programmed in C on Windows NT.
- (b) Hua Dong Edition's computer system of People's Daily. Focused on the system integration and implementation.
- (c) People's Daily's office system. Programming in C/C++ on Windows NT & Sybase system and providing the end user technical support and training. People daily text data retrieve system based on Digital Unix & Oracle system, providing the end user technical support and training.

### **4. July, 1989 –November, 1992**

Computer Programmer and Analyst, The Institute of Botany,  
The Chinese Academy of Sciences, Beijing, China

- a) Programmed in the UNIX and DOS platforms in C, Pascal and FORTRAN languages in ecological model simulation, data management and processing.
- b) Relational database system construction based on FoxBASE and Oracle.

### ***Training Certificates:***

Certificate from ESRI Virtual Campus, January, 2003

Subject: Learning ArcGIS I (for ArcView 8, ArcEditor 8, and ArcInfo 8)

Certificate from ESRI Virtual Campus, December, 2003

Subject: Learning ArcGIS II (for ArcView 8, ArcEditor 8, and ArcInfo 8)

Certificate from Rational University, Lexington, MA, March, 2001

Subject: ClearCase Administration – Unix

Certificate from Rational University, Lexington, MA, March, 2001

Subject: ClearCase MetaData – Unix

Certificate from Rational University, Lexington, MA, March, 2001

Subject: ClearCase Fundamentals – Unix

Certificate from Remedy Corporation, Mountain View, CA, June, 2000

Subject: administrating the AR System 4.0

Trained at DEC network training center, New York, Jan.– Feb., 1996

Subject: Digital Unix system and Network software.

## References:

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