**Mahendra Duwal Shrestha**

4831 E Summit Cir Apt 136 ● Knoxville, TN 37919 ● (865) 441-7363 ● [mduwalsh*@vols.utk.edu*](mailto:mduwalsh@vols.utk.edu)

*●* [*mduwalshrestha@gmail.com*](mailto:mduwalsh@vols.utk.edu)

**SUMMARY**

A software engineer with 2.5 years of professional industry experience in C#, Asp.Net, Java, Grails. Proven abilities in analysis, test development and application development in both new and existing projects. 2.5 years of research experience in developing mathematical simulation programs involving cluster computations in C/C++.

**EDUCATION**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MS in Computer Science,** The University of Tennessee, Knoxville, GPA: 3.9  *Major courses taken*: Computer Systems Organization, Software Systems, Algorithms, Introduction to Pattern Recognition, Databases and Scripting Languages, Applied Cryptography, Distributed System Algorithms  *Thesis:* Efficient Simulation Of A Simple Evolutionary System | |  | | *2014-2017* |
| **BE in Electronics and Communication Engineering**, Pulchowk Engineering Campus, Tribhuvan University, Nepal, GPA: 3.8 |  | | *2007-2011* | |

**SKILLS SUMMARY**

* Programming Language: C, C++, Java, C#, Python, Groovy, Javascript, PHP, Perl
* Web Technologies: HTML5, Groovy on Grails, ASP.Net, ASP.Net MVC, Ajax, Jquery, JSON, Spring MVC
* Version Control: git, SVN
* Databases: MYSQL, MSSQL
* Tools: Gnuplot, pthreads, CUDA, OpenMP, Hadoop, MATLAB, R, Visual Studio, TFS, Eclipse, IntellijIdea, Emacs, Latex
* SDLC: Waterfall, Agile Scrum
* Platforms: Linux, Windows, Unix

**EXPERIENCE**

|  |  |  |
| --- | --- | --- |
| ***Graduate Teaching / Research Assistant*** *, The University of Tennessee, TN* |  | *8/2014 – 2017* |

* Graded assignments and projects, and tutored for undergraduate classes 'Algorithm Analysis and Automata' and 'Software Engineering' during academic year 2014 - 2015
* Developed programs for agent-based simulations of mathematical models and plotting graphs using **C/C++** and **gnuplot** for Dr. Sergey Gavrilets in Ecology and Evolutionary Biology Department during 2014 – 2017
* Used cluster computing for simulations and fixed maintenance issues in the cluster

|  |  |  |
| --- | --- | --- |
| ***Software Engineer****, Deerwalk Services Pvt. Ltd., Nepal* |  | *1/2012 – 7/2014* |

* Developed web applications using **agile** methodology for health care system management in US using **ASP.Net, ASP.Net MVC** and **C#** as a member of outsourcing service provider team
* Designed and developed database schema and stored procedures in **MSSQL**
* Developed and maintained US health care system management web application modules using **Grails** framework as a member of Deerwalk's product's team
* Designed and developed database schema, scripts and stored procedures in **MYSQL**
* Led developer's team for development and optimization of generic **MYSQL** scripts for importing staged data from multiple clients into company's product's database system