

## Mahendra Duwal Shrestha

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### SUMMARY

A software engineer with 2.5 years of professional industry experience in C#, Asp.Net MVC, 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

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**MS in Computer Science**, The University of Tennessee, Knoxville, GPA: 3.88 2014-2017

*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

**BE in Electronics and Communication Engineering**, Pulchowk Engineering Campus, Tribhuvan University, Nepal, GPA: 3.8 2007-2011

### SKILLS SUMMARY

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- Programming Language: C, C++, C#, Java, Groovy, Javascript, PHP, Perl, Python
  - Technologies: ASP.Net, ASP.Net MVC, Groovy on Grails, Node.js, HTML5, JSON, Web services, WCF services, REST, SOAP, Hibernate, Entity Framework, LINQ, Spring MVC, LAMP, Ajax, JQuery, JUnit, NUnit
  - Version Control: git, subversion
  - Databases: MYSQL, MSSQL
  - Tools: Gnuplot, pthreads, CUDA, OpenMP, Hadoop, Visual Studio, TFS, Eclipse, IntelliJIdea, Net beans, Resharper, TortoiseSVN, Emacs, Latex
  - SDLC: Agile Scrum, Waterfall
  - Platforms: Linux, Windows, Unix

### EXPERIENCE

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**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 simulations of computational models and plotting graphs using C/C++ and **gnuplot** for Dr. Sergey Gavrilits 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