

## Mahendra Duwal Shrestha

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### 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

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**MS in Computer Science**, The University of Tennessee, Knoxville, GPA: 3.9 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++, 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

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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 agent-based simulations of mathematical 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