Marshal Patel

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EDUCATION

Indiana University, Bloomington, IN   May 2016
Master of Science, Computer Science   GPA: 3.55
Key Courses: Data Mining, Machine Learning, Information Retrieval, Cloud Computing

RTM Nagpur University, Nagpur, India   June 2011
Bachelor of Engineering, Electronics and Telecommunication   GPA: 3.60

PROJECTS

Kaggle's Microsoft Malware Classification Challenge   May 2015
Developed an effective machine learning model to classify nearly 11000 variant of malware files (500 GB of assembly code files) into their respective malware families with a logloss of 0.0625.

PageRank in Hadoop-MapReduce   Mar 2015
Implemented PageRank algorithm in distributed environment using MapReduce paradigm to efficiently compute the relative importance of various URLs.

Analysis of movie ratings   Feb 2015
Created an unsupervised learning model using Agglomerative Clustering to derive an effect of age and profession of the users on the ratings they give to movies of various genre.

Port Scanner   Nov 2014
Created a multi-threaded port scanner that could create up to 1200 threads with IPv4 support in C++ for network admins interested in ensuring that machines on their network run only expected services.

BitTorrent Client   Oct 2014
Built a multi-threaded BitTorrent Client in C++, which can exchange files between multiple peers over the network.

TECHNICAL SKILLS

Languages	C, C++, Java, C#, Python, SQL, R, LaTeX.
Web Development	HTML5, CSS3, JavaScript, jQuery.
Tools	Vi/Vim, Eclipse, Visual Studio, Git, TFS, VirtualBox, RStudio.
Database	Oracle, MySQL.
Operating Systems	Unix, Linux, Windows.
Frameworks	Hadoop, .NET.

EXPERIENCE

Associate Instructor   August 2015 - Present
Indiana University, Bloomington, IN
- Lead associate instructor for the undergrad course Introduction to Programming using Python and C for the Fall-2015 semester.

Web Developer   June 2015 - Present
University IT Services, Indiana University, Bloomington, IN
- Working on migration of the IU Print website - www.print.iu.edu from Cold Fusion to .NET.
- Technology used: C#, ASP.NET MVC, jQuery, Bootstrap, CSS3, SQL SERVER.

Software Engineer   Feb 2012 - July 2014
Infosys Limited, Hyderabad, India
- Designed and developed an efficient system that fetched real time GPS data of on-field technicians every 5 minutes and displayed them on third-party map.
- Redesigned the user interface and enhanced server side performance using jQuery, JavaScript, .NET, HTML, and CSS, achieving 10 times higher throughput.