Karan Tyagi

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Available: May 2018 – August 2018

EDUCATION

Northeastern University, Boston, MA
College of Computer and Information Science *Sept. 2017 - Present*
Candidate for a Master of Science in Computer Science Grade: 3.5/4.0 *Expected Graduation: Dec. 2019*
Relevant Coursework: Programming Design Paradigm, Algorithms, Data Mining, Information Retrieval

Institute of Engineering and Technology, Lucknow, India
Bachelor of Technology in Computer Science and Engineering, Grade: 3.68/4.0 *Jul. 2010 – Jun. 2014*

TECHNICAL SKILLS

Programming Languages:	Java, Python, C#, Racket
Systems:	Windows, Linux
Software:	MATLAB, Microsoft Visual Studio, .NET framework, Windows Forms
Web Technologies:	HTML5, CSS3, JavaScript, ASP.NET
Databases:	MySQL, MS SQL
Tools:	Git, Eclipse, Sublime

EXPERIENCE

Teaching Assistant | *Northeastern University, Boston* *Jan. 2018 – Present*
- Grading assignments and projects for subject CS4300 - Computer Graphics.
- Tutoring Labs and conducting course-related doubt sessions for students.

Student Intern | *Forest Survey of India, (Ministry of Environment, Forests and Climate Change, Govt. of India), Dehradun, India* *May – Aug. 2013*
- Designed a data collection windows app using C# and .NET framework for monitoring the disbursement of funds under the Integrated Forest Management Scheme, Govt. of India
- Optimized the database design and simplified and improved the user interface.
- Digitizing fund disbursement lead to a significant decrease in the man hours and increased the efficiency of the entire process by more than 50%.

PROJECTS

Squash Game Simulation | *Northeastern University, Boston* *Nov. 2017 – Present*
- Created a ball - racket game where the player plays to maximize his/her time.
- Implemented the basic rules of squash game using functional programming in *Racket* language.

American Sign Language Interpreter | *HackWITus Hackathon, Boston* *Nov. 2017*
- Used Leap Motion Controller to detect signs, from American Sign Language, and convert them into text.
- Created a dataset for training a Logistic regression algorithm using Amazon Machine Learning platform.
- Used Python and NumPy for data preprocessing.
- Won the "Best use of Amazon Web Services" prize at 'HackWITus 2017', Wentworth Institute of Technology.

Virtual Mouse | *Under graduate major project, IET Lucknow, India* *Sept. 2013 – May 2014*
- Developed a Windows application using MATLAB and image processing algorithms, which simulated mouse functionality like point-and-click
  and drag-and-drop using live video feed from laptop's webcam.
- Compared various color detection algorithms to recognize colored markers on fingertips.
- Improved the response time by optimizing memory management to reduce real time processing lag