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KARAN TYAGI

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EDUCATION

Northeastern University, Boston, MA
College of Computer and Information Science
Master of Science in Computer Science, **Grade: 3.8/4.0**

Sept. 2017 - Present
Expected Graduation: Dec. 2019

Institute of Engineering and Technology, Lucknow, India
Bachelor of Technology in Computer Science and Engineering (C.S.E.)

Jul. 2010 - Jun. 2014

TECHNICAL SKILLS

Programming Languages	Java, Python
Web Technologies	HTML, CSS, JavaScript, jQuery, React, Redux, React Native
Frameworks	Angular, Express, Node, Flask, Spring, .NET, MATLAB
Tools	Git, Maven, Atom, IntelliJ, Eclipse, Visual Studio, Web Storm
APIs, Libraries	OpenCV, OpenGL, Lucene, Amazon Web Services, Heroku
Databases	MySQL, MongoDB
Operating Systems	Windows, Linux (Ubuntu)

EXPERIENCE

Teaching Assistant	Northeastern University, Boston	<i>Jan. - Apr. 2018</i>
• Tutored Labs and conducted course-related doubt sessions for Computer Graphics Course		
Project Intern	Forest Survey of India (Ministry of Environment & Forests), Dehradun	<i>Jun. - Jul. 2013</i>
• Optimized database design and built a windows application in C# and .NET framework for monitoring disbursement of funds under the Integrated Forest Management Scheme, Govt. of India		
• Digitizing fund disbursement process decreased man hours by more than 40%		

PROJECTS

Job Search Made Easy	<i>May. - Jun. 2018</i>
Job portal for posting and searching jobs using the MEAN Stack - Angular, MongoDB, Express, Node.js	
White Board - Online Course Management System	<i>Apr. - Jun. 2018</i>
Modules were created with jQuery, Angular, Bootstrap, React, MySQL, MongoDB, Express, Node.js	
Accessible Display Screen Navigation for the Blind PerkinsHack 2018 Hackathon	<i>Feb. 2018</i>
Presented a prototype in under 18 hours Python, OpenCV, Google Cloud OCR API, Watson Speech API	
Yelp Restaurant Recommendations	<i>Jan. - Apr. 2018</i>
Predicted ratings from reviews and applied collaborative filtering to recommend new restaurants Python	
Search Engine	<i>Jan. - Apr. 2018</i>
Implemented a Web crawler, Indexer, Query processor, Searcher, and evaluated performance of TF-IDF, BM25, Query Likelihood Retrieval models and Apache Lucene Java, Maven, Apache Lucene	
Virtual Mouse	<i>Jun. 2013 - Apr. 2014</i>
MATLAB Windows application to simulate mouse features like clicking & drag-and-drop using laptop webcam	

HACKATHONS AND AWARDS

- *Accessible display screen navigation for the Blind | Won "Making a Meal" challenge | PerkinsHack 2018*
- *American Sign Language Interpreter | Won "Best use of Amazon Web Service" | HackWITus 2017*
- *Emotion Recognizing Music Player | Python, OpenCV, Flask, Microsoft Azure API | HackBeanPot 2018*
- *Goju-Ryu Karate, Green-II Belt (4th Kyu) | International Academy of Martial Arts, India | Aug. 2015*
- *Academic Excellence Award – Silver Medal | 2nd rank in C.S.E. - 2014 batch during under-graduation | Jun. 2014*