

Karan Tyagi

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EDUCATION

Northeastern University, Boston, MA

Sept. 2017 - Present

College of Computer and Information Science, GPA: 3.8 / 4.0

Expected Graduation: Dec. 2019

Master of Science in Computer Science

Relevant Coursework: Algorithms, Web Development, Information Retrieval, Data Mining, Database Systems, Managing Software Development

Institute of Engineering and Technology, Lucknow, India

July 2010 - June 2014

Bachelor of Technology in Computer Science and Engineering (C.S.E.)

TECHNICAL SKILLS

Programming Languages	Java, Python
Web Technologies	HTML, CSS, Javascript, jQuery, React, Redux
Frameworks	AngularJS, NodeJS, Spring Boot, MATLAB
Tools	Git, IntelliJ, Eclipse, Visual Studio, Web Storm
APIs, Libraries	OpenCV, Amazon Web Services (AWS)
Databases	MySQL, MS SQL Server, MongoDB (NoSQL)
Operating Systems	Windows, Linux

EXPERIENCE

Teaching Assistant | *Northeastern University, Boston*

Jan. - Apr. 2018, Sept. 2018 - Present

- Tutored Labs and conducted course-related doubt sessions for Computer Graphics using C++ and OpenGL

Project Intern | *Indian Ministry of Environment & Forests, Dehradun, India*

June - July 2013

- Designed database and built a windows application with C#, WPF and .NET framework for monitoring disbursement of funds under the Integrated Forest Management Scheme, Govt. of India,
- Digitizing the fund disbursement process decreased the man-hours by more than 50%

PROJECTS

Job Search Made Easy

May - July 2018

- Job portal with a RESTful API backend, using MEAN Stack | AngularJS, MongoDB, Express, NodeJS

White Board - Course Management System

Apr. - May 2018

- Online course management system for creating courses and registering students
- Admin and Faculty modules were built using jQuery, ReactJS using a Spring Boot Java server and MySQL
- Student module was built using the MEAN stack - Bootstrap, AngularJS, NodeJS, MongoDB

Accessible Display Screen Navigation for the Blind | *PerkinsHack 2018 Hackathon*

Feb. 2018

- Developed a display navigation system for making digital panels of microwaves more accessible for the blind
- Won "Making a meal" Challenge** by presenting a prototype under 20 hours | Python, OpenCV, Google Cloud OCR API, Watson Speech API

Search Engine

Jan. - Apr. 2018

- Implemented a Web crawler, Indexer, Query processor, Searcher, and evaluated performance of TF-IDF, BM25, Query Likelihood Retrieval models and | Java, Maven, Apache Lucene

HACKATHONS AND AWARDS

- American Sign Language Interpreter** | **Won "Best use of Amazon Web Service" Prize** *HackWITus 2017*
- Emotion Recognizing Music Player** | Python, OpenCV, 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. dept. during bachelor's degree *June 2014*