Mudita Tandon

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EDUCATION

Rutgers University, New Brunswick, MS - Computer Science   **Expected: May 2019**
Coursework: Data Structure and Algorithm, Artificial Intelligence, Massive Data Storage - Retrieval and Deep Learning.

MIT College of Engineering, Pune University, India, BE - Information Technology   **July 2012-June 2016**
First Class with Distinction (Valedictorian).

SKILLS

Languages – Python, C, C++, Java, JavaScript, PHP, SQL.
Technologies and Frameworks – Docker, Django, MongoDB, Flask, jQuery, Hadoop, Cassandra, DynamoDB, Spark, Node.js, RequireJS, HTML, CSS, Git, Gerrit, Bootstrap, Travis, Jenkins, Redis, Celery, MATLAB.

RELEVANT WORK EXPERIENCE

Calsoft Inc. - Software Engineer Intern   **June 2015-April 2016**
- Selected among top 4 candidates to work with Google's open source Docker Monitoring Tool- **'cAdvisor'** and develop a new Docker Monitoring Tool as my final year project for Calsoft Inc. https://goo.gl/gsH64T
- Instrumental in design and implementation of the project, using Python-flask and MySql database.
- Identified improvements and suggested enhancements throughout the project like using python client API library of docker instead of pseudo files (cgroups) of docker in linux. This resulted in reduction of time lag in the system.
- Designed architecture and unified modelling language diagrams of the project.
- Project secured 2nd position among 11 projects and was shortlisted for Calsoft White Paper Publication .https://goo.gl/sNGgQR

Avaya India Pvt. Ltd.- Avaya Student Champion   **March 2015-March 2016**
- Winner of Student Championship 2015 conducted by Avaya India Pvt. Ltd, which resulted in working with top professionals of Avaya India Pvt Ltd,Pune to further the student outreach programme of Avaya.
- Procured hands-on knowledge on plethora of technologies like Voice over Internet Protocol.

Advanced Database Management System Laboratory (MIT) - Research Intern   **July 2014-May 2015**
- Developed Methodological Algorithm for Proposed open source end to end solution for analyzing large technical support datasets using Hadoop under the guidance of Dr. Priya Deshpande. https://goo.gl/pmBDBx
- The base paper for the research was - "KASR:A Keyword-Aware Service Recommendation Method on Mapreduce for Big Data Applications" by Shunmei Meng, Wanchun Dou, Xuyun Zhang, and Jinjun Chen, Senior Member, IEEE.
- Researched on TiQi: Answering Unstructured Natural Language Trace Queries.

ABU Robocon, MITCOE team - Software Developer   **Aug 2012-March 2014**
- Extensively worked on autonomous machines with features of locomotion and actuation using sensor feedback systems like encoders, line sensors, tactical sensors and gyroscope.
- Designed and implemented various sensors and interfacing circuits along with programming ATMEGA 1280 and 2560 micro-controllers and Arduino boards.
- Secured 6th and 14th place nationally amongst 80+ participating colleges. https://goo.gl/x1NKNe

TECHNICAL PROJECTS

Image Processing using Fast Fourier Transform Algorithm   **Oct 2017- Present**
- Performing de-nosing and decompression of images by fast fourier transform using MATLAB. https://goo.gl/RxBz2Z

Minesweeper   **Sept 2017- Oct 2017**
- Applied global and local search algorithms to solve a maze and create harder mazes using Java . https://goo.gl/ZsvFWH

MazeRunner   **Aug 2017- Sept 2017**
- Developed a program capable of playing minesweeper using probabilistic decision making using Python . https://goo.gl/tKsfLF

Implementation of KNN on Big Data   **Jan 2017-April 2017**
- Implemented KNN classification algorithm on datasets containing user and critics rating using Java, Cassandra. https://goo.gl/io5nso

Automation of Analysis and Development Management   **July 2013-May 2014**
- Programmed a bug reporting system that functioned on 3 levels of priority/privileges using PHP, MongoDB.https://goo.gl/j2AVMW

Entity Delivery System   **Aug 2013-Dec 2013**
- Designed working skeleton of Enterprise Resource Planning System, using HTML/CSS, PHP, MySQL. https://goo.gl/kVngsu

ACTIVITIES and ACHIEVEMENTS

- Successfully took part in **Team Indus of Google Lunar X Prize Hackerearth Competition** and secured   **June 2016**
  rank **13 at national level.**
- Won **Cognizant Certified Student Program 2015** organised by Cognizant Technologies.   **May 2015**
- Scored **99.6** percentile in **National Creativity Aptitude Test 2015** and represented MIT College Of Engineering   **March 2015**
  in New Delhi. https://goo.gl/Th4UEz
- Attended the **FUDCon-International** Fedora Users and Developers Conference 2015 at MIT College of Engineering.   **June 2015**
- Acted as ambassador **Mozilla open source community** at MIT College of Engineering.