Varad Choudhari

1171 Boylston Street, Apt. 35 | Boston, MA 02215 | choudhari.v@husky.neu.edu | 617-849-1140
Available: **May – December 2018**

EDUCATION:

Northeastern University, Boston, MA
College of Computer and Information Science — Sept. 2017 - present
Candidate for a Master of Science in Computer Science — Expected graduation: Dec. 2019
Related Courses: Program Design Paradigms, Information Retrieval

Rajarambapu Institute of Technology, Sangli, India
Bachelor of Technology in Computer Science — August 2012 - May 2016
Related Courses: Algorithms, Data Structures, Operating Systems, Databases

TECHNICAL KNOWLEDGE:

Languages:	Python, Java, C, C++, C#, HTML, CSS
Technologies:	Node.js, Django, Android, Git
Databases:	MySQL, SQLite, MongoDB
Certifications:	Cisco Certified Network Associate in Routing and Switching

WORK EXPERIENCE:

Nine Dot Nine Mediaworx Pvt. Ltd., Mumbai, India — June – July 2013
Information Technology Intern

- Collaborated with the team to revamp the existing websites' design using JavaScript
- Installed wired/wireless network infrastructure and resolved technical problems related to them
- Developed Python scripts to automate CPU/GPU testing which improved testing efficiency by 20%

PROJECTS:

Reverse Dictionary (*paper*)

- Designed a novel method to process any forward language dictionary and build a reverse dictionary
- Assessed the similarity between word and input phrase using distance-based similarity measure with n-level reverse search on a graph
- Implemented this approach that resulted in 84% better performance than existing reverse dictionaries
- *Published a paper describing the approach in the proceedings of "COLING'16 – The 26th International Conference on Computational Linguistics, Osaka, Japan*"

Internet of Things (IoT) enabled water-level monitoring system

- Designed and incorporated cost-effective, power-efficient, lag-free IoT architecture using MQTT protocol on AWS EC2, which resulted in real-time sensor data transmission
- Implemented prediction system using time-series machine learning model that forecasted water-level for the next 24 hours
- Solved unattained and real-time water-level monitoring and pump control problem using Raspberry Pi/Arduino and ultrasonic sensor, and reduced water wastage by 40%
- *Awarded as "best project" of 2016 by the undergrad university*

ACHIEVEMENTS:

- "Winner" of university-level Hackathon in Java
- "Second-runner up" in All India Flash ActionScript Programming contest