

# RISHAB KHANDELWAL

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Available : Jan – Aug 2017

## EDUCATION

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**Northeastern University**, Boston, MA Jan 2016 - Present  
College of Computer and Information Science Expected: Dec 2017  
Candidate for a Master of Science in Computer Science (**GPA 4.0**)  
Related Courses: Programming Design Paradigm, Database Management System, Algorithms, Web Development

**Thapar University**, Punjab, India July 2012  
Bachelor of Engineering in Electronics & Communication Engineering (ECE)  
Related Courses: Data Structures and Information Technology, Numerical and Statistical Methods, Computer Programming, Object Oriented Programming, Web Development, Graph Theory and Applications

## TECHNICAL KNOWLEDGE

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**Languages:** C++, Java, C, C#, Racket, Scala  
**Operating System:** Windows, UNIX  
**Web Technologies:** HTML5, CSS3, Bootstrap, JavaScript, JQuery, Angular.js  
**Databases:** Oracle-MySQL, JDBC, JPA, SQL Server  
**Tools:** Eclipse IDE, Visual Studio, Tortoise SVN, Git, Github

## WORK EXPERIENCE

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**Nagarro Software**, Gurgaon, India June 2014 – Dec 2015  
*Software Engineer*

- Developed an **Accounting cum Financial desktop application** (QuickBooks) using technologies such as JavaScript, C, C++, C Sharp, Win32 which handles different types of transactions between supplier and customer
- Conducted various workshops for junior engineers on Scala, Java, C and C++

**Kritikal Solutions Pvt. Ltd**, Noida, India Oct 2012 – June 2014  
*Development Engineer*

- Implemented hardware for **Energy Optimizer**, a microcontroller based project used in air conditioning systems and wrote the firmware in C language
- Designed a **Road Sign Engine Detector System** by modifying code written in C/C++ which read contents of textual supplementary signs related to main traffic signs; Improved accuracy of reading images to **more than 98%**

**Texas Instruments**, Bangalore, India Jan 2011 – July 2011  
*Project Intern*

- Designed an algorithm using MATLAB to store image in a compressed form in terms of end points and extract features such as walls, cubicles and pathways from the given indoor floor plan

## ACADEMIC PROJECTS

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**WebApp Maker**, Northeastern University, Boston

- Developing a website as a part of the course using MEAN stack framework

**Job Search Portal**, Northeastern University, Boston

- Developed a backend database on MySQL to keep students updated on the upcoming open job positions

**Algorithm Codebook**, Thapar University, Punjab

- Implemented various data structure and Algorithms in a single user interactive program

**Advertisement Detection in Digital Videos**, Thapar University, Punjab

- Analyzed shot change of inter frame difference in digital videos and computed a threshold value to **extract the advertisement** from the digital video

**Mobile Controlled Robot**, Appins Technology

- Created a robot using DTMF technology which can follow instruction given by the mobile such as move forward/backward and turn left/right

## ACADEMIC ACHIEVEMENTS

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- Ranked among **top 1% students** in All India Engineering Entrance examinations 2008, Total applicants ~ **0.9 million**
  - Awarded distinction in Physics, Chemistry and Mathematics with **Aggregate 96%** in Class 12<sup>th</sup>

## INTERESTS/ ACTIVITIES

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- Solving Puzzles, Participated and won many hackathons during undergraduate level