

# Deepak Bansal

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## RESEARCH INTERESTS

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Natural Language Processing, Artificial Intelligence

## EDUCATION

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### Northeastern University

Candidate for a Master of Science in Computer Science, GPA 3.56/4.0

Boston, MA  
September 2016 – present (Expected December 2018)

Relevant Courses: Algorithms, Web Development, Robotic Science and Systems, Natural Language Processing, Large-Scale Parallel Data Processing.

### Ansal University

Bachelor of Technology in Computer Science and Engineering, GPA 3.51/4.0

Gurugram, India

June 2016

Relevant Courses: Object Oriented Programming, Analysis of Algorithms, Data Structures, Computer Networks, Database Management Systems.

## TECHNICAL KNOWLEDGE

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- **Languages:** Proficient in Java, Python. Skilled at C++, JavaScript, SQL. Familiar with MATLAB, Ruby. Previously worked on PHP.
- **Software/Technologies:** Experience with UNIX/Linux, Spark, Hadoop, Git, Salesforce Commerce Cloud, Amazon AWS, Heroku, TensorFlow.
- **Web Technologies:** Experience with HTML/CSS, XML, JSON, REST, React, Angular, Node.js, MongoDB, MySQL, Django, WordPress.

## WORK EXPERIENCE

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### SessionM

Software Engineering Intern

Boston, MA

January 2018 – Present

- Designed, Developed and Deployed features for Salesforce Commerce Cloud Storefront Cartridge using JavaScript and SessionM Platform API.
- Reduced debugging time by designing, developing and documenting automation framework for multiple API environments using JSON and Java.
- Sped up processes by developing scripts to automate and execute various database actions running through API Endpoints in Bash and Python.
- Improved customer experience by implementing OAuth Login for SessionM integration with Salesforce Commerce Cloud Cartridge.

### Rivigo

Software Development Intern

Gurugram, India

May – June 2015

- Increased speed of gaining useful insights into data by 30% by developing Business Analytics Dashboard for Fuel & GPS Sensors. The app stored data in cloud on MongoDB and presented locally with UI developed in D3JS using PHP for logic to manipulate and operate upon data.
- Decreased customer service time by 50% by designing and developing customer facing website with help section in PHP, SQL and UI in jQuery.

### 4play Mobile Solutions

Web Development Intern

Istanbul, Turkey

February – May 2014

- Designed and developed website for 4play India using CodeIgniter Web Framework, MySQL and Twitter Bootstrap on Apache server on Linux.

### Prof. (Dr.) Aynur Ünal, Dean of School of Engineering and Technology, Ansal University

Research Assistant

Gurugram, India

October 2013 – April 2014

- Improved speed of University's website by 35% by redesigning and developing it using WordPress. Maintained it for 4 months.
- Increased participation in events by 12% by designing school yearbook and brochures for 2 workshops. Also developed school's Android app.
- Increased internship placements by 8% by mentoring freshmen, sophomores and other students on Blender 3D modelling and Python scripting.

## SELECTED PROJECTS

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- **Path Planning:** Researched and Implemented Sampling-Based algorithms for motion planning problems in robotics within a highly complex obstacle configuration space — Probabilistic Roadmap (PRM) and Rapidly-exploring Random Tree (RRT) — in MATLAB for Puma 560 robot.
- **Plagiarism Detector:** Java and AngularJS application developed in a team of 4 that detects if the code is plagiarized within two Java projects using Improved Plagiarism Detection Algorithm Based on Abstract Syntax Tree by G. Tao, D. Guowei, Q. Hu and C. Baojiang.
- **Media Base:** Developed a MEAN stack web app in MVC pattern using *The Movie DB* API hosted on Heroku. It has 2 user roles that allow users to browse, sort, like, and critique movies and message, and follow other users as per user role. <https://mediabase.deepakbansal.org>
- **Movie DB:** Developed LAMP stack application with 3 user roles, movie ticket booking portal, subscriptions & reviews in SQL business rules. Producers can add movies to the portal, critics can review the movies and buy tickets, fans can read reviews, subscribe to critics and buy tickets.
- **Intemporel:** Developed theme for WordPress. Available on WordPress theme directory at URL: <https://wordpress.org/themes/intemporel/>.
- **Algomash:** Developed open source boilerplate with necessary operations for creating static documentation websites for projects using Jekyll.

## ACTIVITIES AND LEADERSHIP EXPERIENCES

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- **Founding Member,** Digital Monozukuri, research team along with 4 members which participated in *2014 IEEE Conference on Norbert Wiener*.
- **Student Delegate,** International Conference on Strategy, Innovation & Technology 2014 organized by Ansal U. and Valparaiso University.
- **First Position** out of 40 teams in *AppsMania 2013* National Android Apps Development Championship zonal round organized by iSec Systems.
- **Special Prize,** *Idea to Execution for Entrepreneurs* workshop at International Business Summit 'Confluence 2012' of IIM Ahmedabad zonal round.