

Deepak Bansal

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EDUCATION

Northeastern University

Boston, MA

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

September 2016 – present (Expected December 2018)

Relevant Courses: Algorithms, Large-Scale Parallel Data Processing, Robotics Science and Systems, Managing Software Development, Web Development, Programming Design Paradigm, Database Management Systems.

Ansal University

Gurugram, India

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

June 2016

Relevant Courses: Object Oriented Design, Algorithms, Data Structures, Computer Networks, Information Retrieval and Data Mining.

TECHNICAL KNOWLEDGE

Languages: Proficient in Java and Python. Experience with Scala, C++, SQL. Familiar with MATLAB, Ruby, and PHP.

Software: Git, Spark, Hadoop, MapReduce, Salesforce, Elasticsearch, Pandas, TensorFlow, Scikit, Keras, AWS, Docker, Jenkins, Jmeter.

Web Technologies: Experience with HTML/CSS, JavaScript, RESTful APIs, Angular, Node.js, MongoDB, MySQL, and WordPress.

WORK EXPERIENCE

SessionM

Boston, MA

Software Engineering Intern

January – August 2018

Worked on several complex integration projects, using Java and JavaScript as main languages. The role involved coordinating internationally while developing, debugging through a large code database, interviewing and mentoring junior interns and acting as point of contact with multiple other teams. The teamwork helped drive multi-million-dollar investments. Projects included:

- Developed features for Salesforce Service Cloud to integrate with SessionM Notes module using Apex, Aura and JavaScript.
- Designed, Developed and Integrated Offers module for Salesforce Commerce Cloud using JavaScript and SessionM Platform APIs.
- Improved customer experience by implementing SessionM OAuth Login on Salesforce Commerce Cloud cartridge using Java and JS.
- Sped up processes, by developing and deploying scripts to automate and execute various server jobs actions in Bash and Python.
- Reduced debugging time by designing, developing and deploying reports for automation environments using Java and TestRail API.

Rivigo

Gurugram, India

Software Development Intern

May – June 2015

- Increased speed of gaining insights into data by 30% by developing Business Analytics Dashboard for Sensors in PHP & MongoDB.
- Decreased customer service time by 50% by designing and developing customer facing website with help section in PHP, SQL, jQuery.

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

Gurugram, India

Research Assistant

October 2013 – April 2014

- Improved speed of University's website by 35% by redesigning, developing and maintaining it using WordPress for 4 months.
- Increased internship placements by 8% by mentoring freshmen, sophomores and other students on Python scripting.

PROJECTS

- **Salesforce Integration:** Implemented SessionM Offers Module in Salesforce Commerce Cloud cartridge using JavaScript, so that, while shopping on a website that uses SFCC with SessionM cartridge, the customer can redeem offers to receive associated perks. Additionally, implemented SessionM Notes module in Salesforce Service Cloud package, using JavaScript and Apex — a language similar to Java, to help customer care department of companies using it to add comment on users.
- **Path Planning:** Implemented Sampling-Based motion planning algorithms — Probabilistic Roadmap (PRM) and Rapidly-exploring Random Tree (RRT) — in MATLAB for Puma 560 robot for determining a path between a starting configuration of the robot and a goal configuration while avoiding collisions within a highly complex obstacle configuration space.
- **Plagiarism Detector:** Java and AngularJS application to detects if the code is plagiarized within two Java code projects using *Improved Plagiarism Detection Algorithm Based on Abstract Syntax Tree* by G. Tao, D. Guo, Q. Hu and C. Baojiang that calculates the hash value for each node of the abstract syntax tree of the programs and compares the hash values node by node.
- **Media Base:** MEAN stack web app developed in MVC pattern using The Movie DB API hosted on Heroku with two user roles that allow users to browse, sort, like, and critique movies and message, and follow other users. <https://mediabase.deepakbansal.org>
- **Movie DB:** LAMP stack movie ticket booking portal with three user roles, subscriptions & reviews in SQL business rules. Producers can add movies to the portal, critics can review the movies, and fans can read reviews, subscribe to the critics, and buy tickets.
- **Intemporel:** Open-source theme for WordPress available on theme directory at URL: <https://wordpress.org/themes/intemporel/>.
- **Algomash:** An Open-source Jekyll boilerplate with necessary operations for creating Documentation website for small projects.