

Deepak Bansal

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EDUCATION

Northeastern University

Master of Science in Computer Science, GPA 3.5/4.0

Courses: Algorithms, Parallel Data Processing, Information Retrieval, Robotics Science and Systems, Web Development, Managing Software Development, Database Management Systems, Programming Design Paradigm.

Boston, MA

September 2016 – December 2018

Ansal University

Bachelor of Technology in Computer Science & Engineering, GPA 3.5/4.0

Gurugram, India

August 2012 – June 2016

TECHNICAL KNOWLEDGE

Languages	Python, Java, JavaScript, C++, SQL, Scala, Bash, HTML, CSS
Databases	MySQL, MongoDB, Elasticsearch
Technologies	Git, Maven, JSON, Ember.js, RESTful APIs, AJAX, D3.js, Eclipse, MEAN, LAMP Stack, Postman, Jmeter
Frameworks	Spark, Hadoop MapReduce, Lucene, Elasticsearch, jQuery, AngularJS, ReactJS, Node.js
Cloud	Amazon AWS (EMR, S3), Salesforce, Heroku

WORK EXPERIENCE

Google

Software Engineer

Mountain View, CA

Starting February 2019

SessionM

Software Engineering Intern

Boston, MA

January 2018 – August 2018

Responsible for several complex integration projects using Java, Python and JavaScript as main languages. Worked in a fast-paced test-driven development following Agile methodology with weekly sprints. 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:

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

Rivigo

Software Development Intern

Gurugram, India

May 2015 – June 2015

- Increased speed of gaining insights into data by developing Business Analytics Dashboard in Python, MongoDB and D3.js.
- Decreased customer service time by designing and developing customer facing website with help section in PHP & MySQL.

PROJECTS

Decision Tree training in Hadoop MapReduce

Implemented C4.5 Decision Tree classifier using parallel big-data processing using Hadoop MapReduce for Books-Crossing Dataset mined by Department of Computer Science of University of Freiburg for predicting if a user of particular age from particular location would like or dislike a book by based on its author and year of publication.

Java, Apache Hadoop, Amazon S3, Amazon EMR

CART Decision Tree for Supervised ML

Implemented a Decision Tree classifier for Supervised Machine Learning using Classification and Regression Tree Algorithm (CART) in Python based on Gini Impurity and Information Gain and prediction on test data with probabilities.

Python, CART Algorithm, Matplotlib, Pandas, NumPy, Scikit-Learn

Path Planning App

Implemented Sampling-Based motion planning algorithms RRT and PRM 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.

MATLAB, Probabilistic Roadmap (PRM) and Rapidly-exploring Random Tree (RRT) Algorithms

Plagiarism Detector Application

Architected and Implemented app to detect if the code is plagiarized within two Java code projects using Improved Plagiarism Detection Algorithm Based on Abstract Syntax Tree by G. Tao, D. Guowei, 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 for each node.

Java, AngularJS, MySQL

Media Base Website

Developed MEAN stack web app 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. Integrated with Facebook and Google OAuth login.

AngularJS, Node.js, Ember.js, MongoDB, Model View Controller, TMDB API, jQuery, Heroku