Prinesh Bansal

bansal.pr@northeastern.edu | linkedin.com/in/bansal-prinesh | www.prineshbansal.com | 617 320 9094 | Boston, MA

EDUCATION

Northeastern University, Boston, MA   Aug 2019 - Dec 2021
Candidate for Master of Science in Computer Science
Relevant Courses: Algorithms, Programming Design Paradigms, Web Development

University of Mumbai, Mumbai, India   Aug 2015 - May 2019
Bachelor of Engineering in Computer Engineering
Relevant Courses: Object-Oriented Programming, Computer Networks, Operating Systems, Software Engineering

TECHNICAL KNOWLEDGE

Languages:	Python, Java, JavaScript, TypeScript, SQL
Database:	MySQL, MongoDB
Frameworks/Tools:	Spring Boot, Express.js, Node.js, React, Git, Amazon Web Services
ML Libraries:	Pandas, Numpy, Matplotlib, PySpark

WORK EXPERIENCE

Cogitate Technology Solutions, Atlanta, GA   Feb 2021 - May 2021
Software Engineering Intern
- Designed & implemented API's using C# and .NET framework to fetch pertinent insurance information
- Migrated business classes from .NET Core 3.1 to .NET 5 and resolved any framework incompatibilities and difficulties arising from change in frameworks
- Wrote components in React for visualizing the information and created URL end points for API calls

Northeastern University, Boston, MA   Sep 2020 - Dec 2020
Graduate Teaching Assistant
- Mentored 49 students and facilitated discussions during office hours to resolve doubts pertinent to coursework
- Assisted professor with classroom instruction and evaluated course assignments and term papers

Comcast, Atlanta, GA   June 2020 - July 2020
Information Technology Intern
- Worked on a project to improve the productivity of Comcast's Customer Experience Representatives
- Streamlined user's workflow by implementing Single Sign-On user authentication for .NET Core applications
- Refactored C# code according to SOLID principles and resolved issues resulting in improvement of run-time performance by 20%

PROJECTS

Plagiarism Checker
Typescript, ReactJS, Express.js, ANTLR, Git
- Designed a multi-file plagiarism detection application that supports languages like Java and Python
- Implemented two strategies for identifying similar solutions based on their Abstract Syntax Tree generated using ANTLR
- Incorporated the functionality of highlighting plagiarized code between two source files

Recommender Systems for Trending YouTube Videos
Python, PySpark, Numpy. Pandas, Beautiful Soup
- Cleaned video descriptions and tags to improve accuracy of the recommender systems
- Implemented Collaborative and Content based filtering strategies and presented their shortcomings and advantages when applied to a real-world dataset

Health & Wellness Management System
Java, Spring Boot, MySQL, ReactJS, AWS, Git
- Developed a RESTful web platform that can administer and track appointments, prescriptions, and other healthcare information pertinent to a hospital such as patient's medical history & doctor's availability
- Deployed the application on Amazon's Elastic Beanstalk and set up the MySQL database on an Amazon's RDS instance

Web Crawler
Python, Beautiful Soup
- Devised a Depth First Search Web Crawler using Python for crawling Wikipedia articles
- Programmed the crawler to perform both unfocused and focused crawling using starting URL, depth factor and maximum number of articles to be collected as input parameters