PRINESH BANSAL

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EDUCATION

Northeastern University, **Khoury College of Computer Sciences,** Boston, MA   May 2021
Master of Science in Computer Science
Relevant Courses: Algorithms, Programming Design Paradigms, Database Management Systems

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

WORK EXPERIENCE

Northeastern University, Boston, MA   Sep 2020 - Dec 2020
Graduate Teaching Assistant – Theory of Computation
- Mentored students during office hours to improve their understanding about the concepts of the subject.
- Assisted professor with classroom instruction and developing teaching materials such as rubrics & lecture slides.
- Evaluated course assignments/papers and facilitated discussions for clearing doubts pertinent to coursework.

Comcast, Atlanta, GA   Jun 2020 - Jul 2020
Information Technology Intern – Application Development
- Streamlined user's workflow by implementing Single Sign-On (SSO) authentication for ASP.NET & ASP.NET Core applications.
- Refactored code resulting in bug fixes and up to 20% run time performance improvement.
- Defined standards for future implementations of user authentication for ASP.NET and ASP.NET Core applications.

PROJECTS

Plagiarism Checker   Dec 2020
Typescript, ReactJS, ExpressJS, Git
- Implemented a plagiarism detection application for identifying similar solutions, where one solution derives from another solution through one or more behaviour-preserving transformations.

Recommender Systems for Trending YouTube Videos   Dec 2020
Python, PySpark, Numpy. Pandas, Beautiful Soup
- Cleaned description and tag information to improve accuracy of the recommender systems.
- Implemented both Collaborative and Content based filtering strategies and presented their shortcomings and advantages when applied to a real-world dataset.

Health & Wellness Management System   Apr 2020
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 MySQL database on AWS - RDS instance and the Spring Boot API on Elastic Beanstalk instance.

Web Crawler   Sep 2019
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.

TECHNICAL KNOWLEDGE

Languages:	Java, JavaScript, TypeScript, Python, SQL
Frameworks/Tools:	Spring Boot, ExpressJS, NodeJS, ReactJS, MySQL, MongoDB, REST, Git, Amazon Web Services
ML Libraries:	Pandas, Numpy, Matplotlib, Pyspark