

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