

# ANUBHUTI VYAS

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👤 <https://anubhutivyas.github.io/>

## EDUCATION

**Northeastern University**, Boston, MA

GPA – 3.67/4

*Master of Science, Computer Science*

Coursework: Algorithms, Information Retrieval, Natural Language Processing, Managing Software Development, Database Management Systems, Programming Design Paradigms

**CTAE, Maharana Pratap University of Agriculture and Technology**, India

*Bachelor of Technology, Computer Science and Engineering*

Coursework: Algorithms, Data Structures, Object Oriented Programming, Database Systems, Operating Systems, Theory of Computer Science, Computer Architecture, Network Security & Cryptography, Computer Networks

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, C#, C++, Spring Boot, Gradle, JavaScript, jQuery, AngularJS, ReactJS, Node.js, HTML, CSS, Bootstrap

**Database:** MySQL, Oracle, MongoDB, JPA, PostgreSQL

**Software and Tools:** Docker, Kubernetes, Git, Maven, Jenkins, Jira, REST/SOAP, SonarQube

**Platforms:** Linux, Windows, AWS, NoSQL Platforms

## WORK EXPERIENCE

**Graduate Research Assistant**, Northeastern University

Jan 2019 – Present

- Developing an application utilizing Java, JavaScript, HTML, CSS, PostgreSQL for web-based visualization and navigation through the space of 3D stacks of microscopic images of brain to understand the synaptic connectivity in its underlying neural network.
- Implement caching and optimizations for multi-user collaboration, fast & smooth navigation through imaging space, and zooming-in/out images.
- Application deployed on lab servers using Docker containers and Kubernetes.

**Choate Hall & Stewart**, Boston, MA (*Software Engineer Co-op*)

May 2018 – Dec 2018

- Developed an interactive web application and Outlook add-in utilizing Angular, JavaScript, C#, HTML, CSS and MySQL to automate the process of scheduling meetings within the firm.
- Developed a Social Networking mobile application using Angular2, C# to improve communication within the firm.

**Tata Consultancy Services Ltd. (TCSL)**, India (*Software Engineer*)

Aug 2015 – Jun 2017

- Developed an application with web accessibility by extensively utilizing Java, JavaScript, AngularJS, HTML and CSS.
- Collaborated with clients for architecture design to improve user experience; implemented SEO techniques to accelerate load-time by 15%.

## ACADEMIC PROJECTS

**Predict Short Auto-replies for Emails**, Northeastern University

Sept 2018 – Dec 2018

- Developed a deep learning NLP model to suggest auto replies from input emails using LSTM.
- Implemented improved K-means algorithm to cluster and rank the stream of responses generated and present the highest ranked response in each cluster to the user.

**Plagiarism Detector**, Northeastern University

Jan 2018 – Apr 2018

- Developed an interactive web application utilizing Java, ReactJS, HTML and CSS to detect code similarity among Python files.
- Leveraged Spring Boot architecture to implement algorithm for parsing Python source code into Abstract Syntax Trees and compare them; application deployed on AWS EC2. Continuous integration done using Jenkins, version control done using GitHub.

**Search Engine**, Northeastern University

Sept 2017 – Dec 2017

- Implemented PageRank algorithm using Python to analyze, parse and store web-pages as inverted index.
- Incorporated features to facilitate proximity-enabled search and implemented query expansion using pseudo relevance feedback; scored and ranked relevant web pages using BM-25, Query Likelihood and TF-IDF models.

**Image Steganography Tool**, CTAE

Jan 2015 – Apr 2015

- Developed an application in Java to encrypt/decrypt information and then embedding/retrieving it from PNG images.
- Implemented lossless compression techniques that substitutes Least Significant Bit (LSB) of each byte of image pixel with the bits of information to be hidden in the image.

## AWARDS AND ACHIEVEMENTS:

- Conferred “*Award of Excellence*” from client for consistent flawless deliveries.