

ANUBHUTI VYAS

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👤 <https://anubhutivyas.github.io/>

EDUCATION

Northeastern University, Boston, MA

GPA – 3.6/4

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, Spring/Spring Boot, Python, C#, C++, JavaScript, jQuery, AngularJS, HTML, ReactJS, Node.js, CSS, Bootstrap
Database: MySQL, Oracle, MongoDB, JPA
Software and Tools: Git, Maven, Jenkins, Jira, REST/SOAP, SonarQube, Eclipse, PyCharm
Platforms: Linux, Windows, AWS, NoSQL Platforms

WORK EXPERIENCE

Graduate Research Assistant, Northeastern University

Jan 2019 – Present

- Developing an application utilizing Java, JavaScript, HTML and CSS 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.

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.