ANUBHUTI VYAS

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🔳 https://anubhutivyas.github.io/

EDUCATION

Northeastern University, Boston, MA   GPA – 3.6/4
Master of Science in Computer Science
Coursework: Algorithms, Information Retrieval, Natural Language Processing, Managing Software Development, Program Design Paradigm
Activities: Secretary of Northeastern University Graduate Women Coders

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, CSS, Bootstrap, Ionic
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

Choate Hall & Stewart, Boston, MA (*Software Engineer Co-op*)   May 2018 – Dec 2018
- Developed an interactive web application and **Outlook add-in** utilizing **Angular2, 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#, Ionic framework** and **Firebase** to improve communication within the firm.

Tata Consultancy Services Ltd. (TCSL), India (*Software Engineer*)   Aug 2015 – Jun 2017
- Developed responsive website with web accessibility by extensively utilizing **Java, JavaScript, AngularJS, HTML** and **CSS.**
- Followed **Agile methodology** for **Test-Driven Development** of project; used **Jira** for issue tracking and **Jenkins** for automated integration.
- Collaborated with clients for architecture design to improve user experience; implemented **SEO techniques** to accelerate load-time by 15%.

ACADEMIC PROJECTS

Tracing and Web-Based Visualization of Neurons in 3D Brain Images, Northeastern University   Jan 2019 – Present
- Developing an application 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.
- Developing new methods for multi-user collaboration for neurite tracing, fast and smooth navigation through the imaging space, and zooming-in/out on objects of interest.

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 ACHEIVEMENTS:
- Conferred *"Award of Excellence"* and *"Young Achiever Award"* from client for consistent flawless deliveries.