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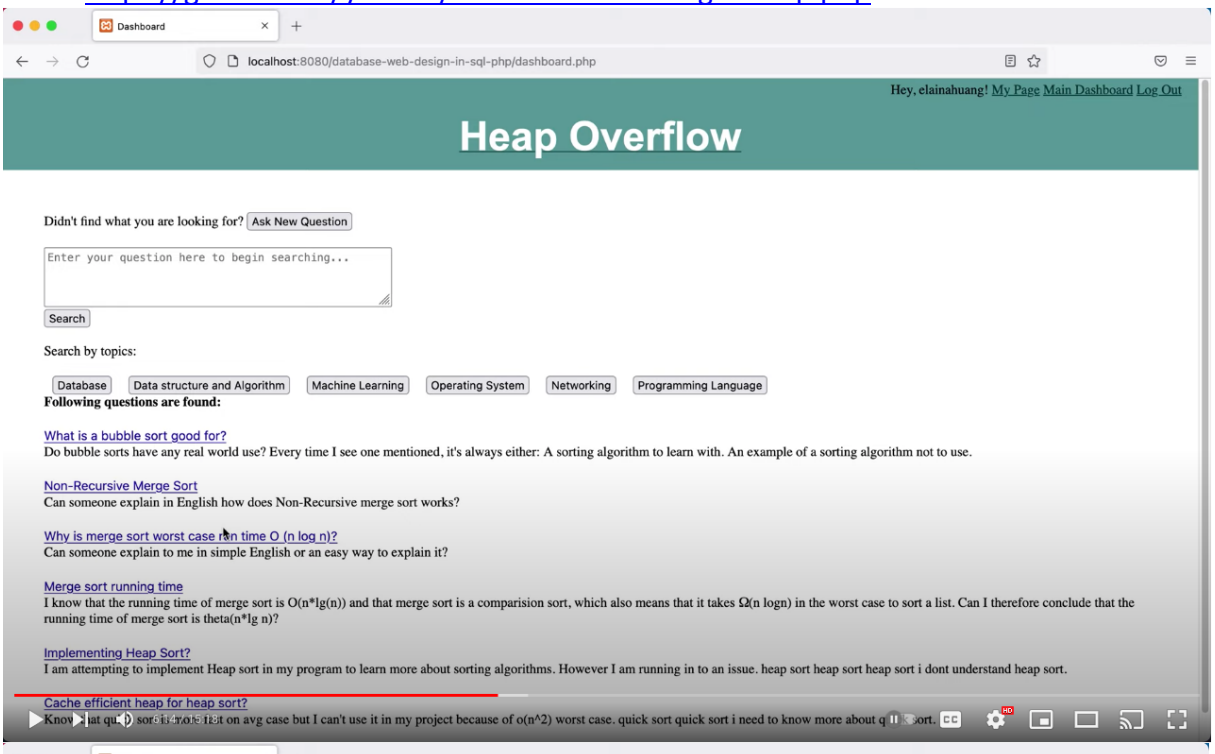
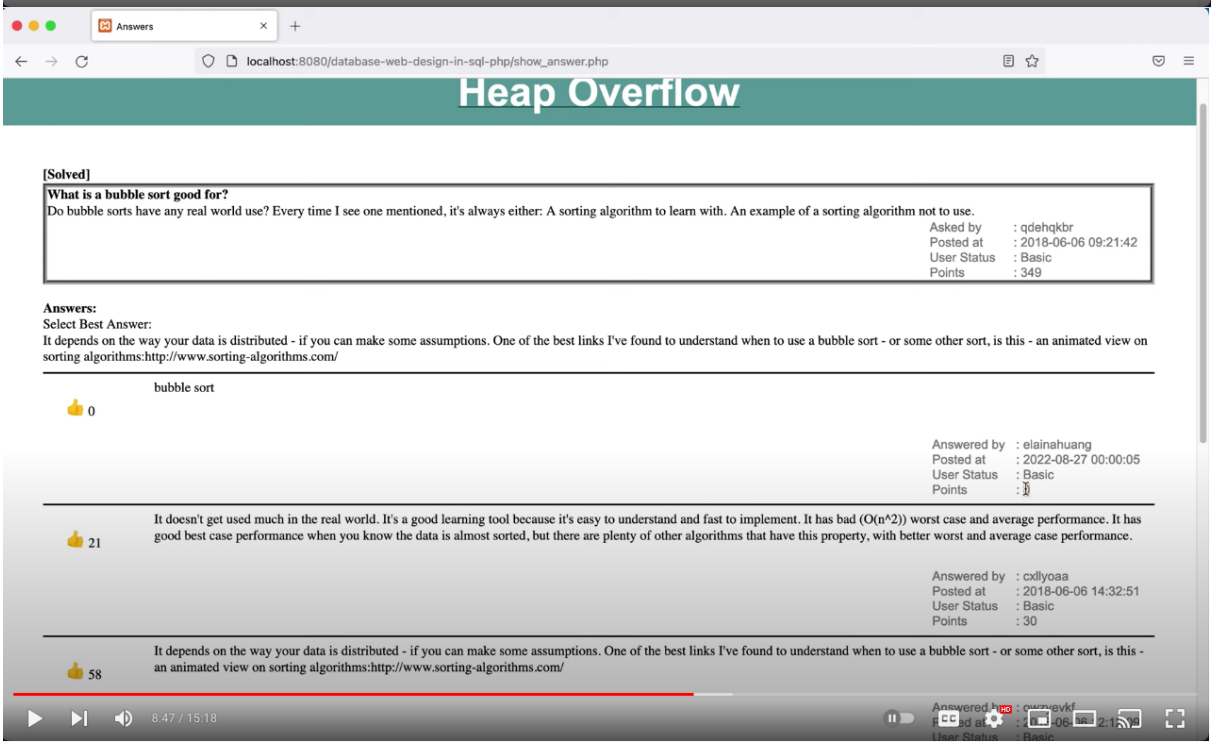
Full Stack Project – Stack Overflow/Quora-like Forum Clone:

Video: https://www.youtube.com/watch?v=irmqbkIU0p8&ab_channel=Elaina

Code: https://github.com/yh0010/database-web-design-in-sql-php





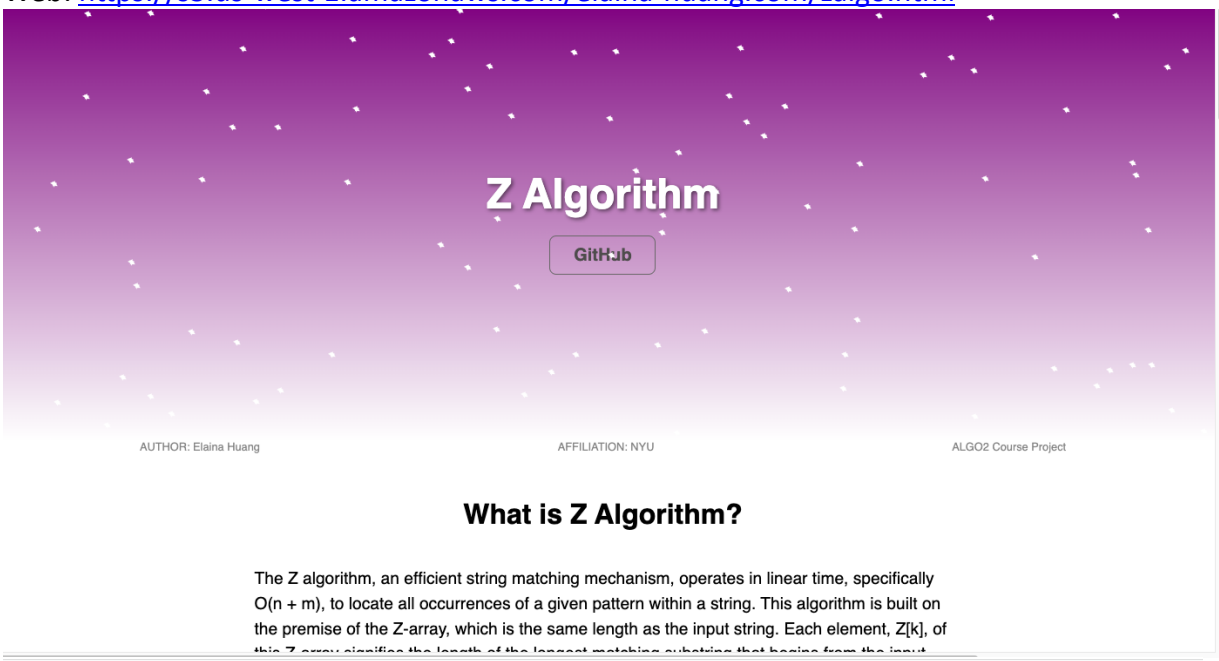
Game Design – Backroom Rescue, A 3rd Person Shooting Game

Video Trailer: https://www.youtube.com/watch?v=StS-S0assco&feature=youtu.be

Code: https://github.com/yh0010/GameDesign_BackroomRescue_Unity_CSharp

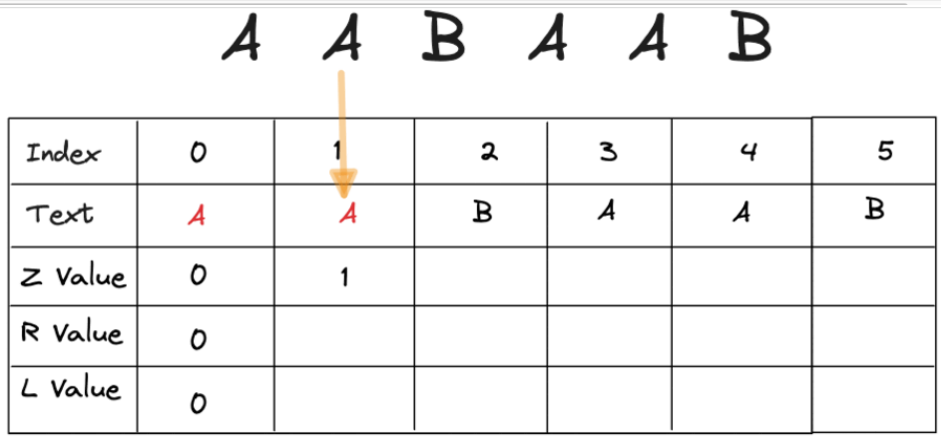
Javascript Web Project – Z-Algorithm

Web: https://s3.us-west-1.amazonaws.com/elaina-huang.com/zalgo.html



What is Z Algorithm?

The Z algorithm, an efficient string matching mechanism, operates in linear time, specifically O(n + m), to locate all occurrences of a given pattern within a string. This algorithm is built on the premise of the Z-array, which is the same length as the input string. Each element, Z[k], of



Let's try it yourself

Text:

Input a string, REQUIRED. Ex. aabaab

Pattern:

Input a string, OPTIONAL. Ex. aab

Cryptography – Fully Homomorphic

Video: https://www.youtube.com/watch?v=R6yZd1LJ9mc&ab_channel=Elaina
Code: https://github.com/yh0010/applied-crypto-project-2

Machine Learning Modeling – Federated Learning vs. Differential Privacy

Code: https://github.com/yh0010/Federated-Learning-v.-Differential-Privacy

More projects on Text Analytics, Computer Graphics, AWS, Web Crawlers, etc. Can be provided upon request.