WINSTON MOH TANGONGHO

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AVAILABLE: MAY 2021

EDUCATION

Northeastern University *Boston, MA*
Khoury College of Computer Science
Candidate for a Master of Science in Computer Science | **GPA:** 3.4/4.0   *January 2019 - May 2021*
Related Courses**:** Data Structures and Algorithms, Programming Design Paradigms, Computer Systems, Artificial
          Intelligence, Machine Learning
Minnesota State University, Mankato *Mankato, MN*
Bachelor of Science in Computer Engineering | **GPA:** 3.8/4.0   *May 2018*
Related Courses: Computer Hardware and Organization, Algorithmic Structures, Digital and Electronic Systems Design,
          Software Engineering, Operating Systems Design, Fundamentals of Software Development

TECHNICAL KNOWLEDGE

- **Operating Systems**: Linux (Ubuntu), Windows OS
- **Languages**:   C/C++, Java, Python, Golang, C#, Ruby, MATLAB, HTML5, CSS, JavaScript
- **Software**:   Kubernetes, JIRA, Git, Visual Studio Code, Java Swing, Microsoft AZURE, Amazon AWS
- **Databases**:   MongoDB, Oracle SQL, MySQL, Postgres
- **AI/ML**   TensorFlow, Keras, VGG15 Neural Networks

WORK EXPERIENCE / ACADEMIC PROJECTS

Software Engineering Intern, *Datadog*   *January 2020 – Present*
- Modified and debugged different parts of a Kafka consumer application (Golang production code) to add a Kubernetes Readiness check on application startup. This improved traffic to the pods in case the application crashed during startup.
- Implemented Golang production code that read from an Amazon s3 storage bucket and correctly parsed the file to obtain Information about our customers' metrics. This prevented us from having to hard code the values in our application.
- Designed new custom metrics for our customers to improve analysis of their distributed applications

Computer Science Teaching Assistant, *Minnesota State University, Mankato*   *August 2017 – May 2018*
- Worked with Course Instructor to prepare coursework and labs for Intro to Computer Science 1&2 courses
- Held office hours to assist students in a class of 20 students with course projects and Assignments every week
- Improved the retention rate for first year computer science students at my University

Pattern Recognition in Top Trending YouTube videos, *Northeastern University*   *September 2019 – December 2019*
- Performed analysis of thumbnail images of the videos by performing Feature extraction, Dimensionality reduction and Unsupervised clustering with a self-organizing map (an Artificial Neural Network) with a dataset size of 5385 entries.
- Applied NLP techniques such as word2vec to obtain a representation of the video descriptions.
- Designed a U-Matrix to display a sample of 1000 images after clustering the thumbnails with the Artificial Neural Network And observed that Talk show videos, basketball videos, CNN News videos and music videos from the 'vevo' channel had the highest Probabilities of being Top Trending videos.

Solving Lunar Lander with Reinforcement Learning, *Northeastern University*   *September 2019 - December 2019*
- Solved the Lunar Lander environment in OpenAI gym by utilizing Reinforcement Learning techniques such as SARSA And Deep Q Learning to train the Agent by using the Keras API.
- Fine-tuned the Network parameters of the Deep Q Network to obtain a top-performing Agent which solved the environment In an average of 200 steps after learning the optimal policy.

INTERESTS/ACTIVITIES/HONORS

- **OvenBot** (*PerkinsHacks 2018 Hackathon: Challenge Award Winner*) *Boston, MA*
  Software Program to ease use of smart Home Appliances by visually impaired individuals
- **WatchAsWords (***Bitcamp 2018 Hackathon*) *College Park, MD*
  C# program that uses Microsoft APIs to provide video transcribing services and subtitles for videos
- **National Society of Black Engineers**, Treasurer: Organized fund-raising events and participated in meetings with Department heads to gather enough funds for our yearly Conference and on-campus activities
- **Awards:** John P. and John R. Habinger Electrical Engineering Scholarship, E.F Johnson Scholarship, Rudy and Leone Salfer Engineering Scholarship at *Minnesota State University, Mankato*