JACK NING

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EDUCATION

George Mason University, Fairfax, VA
Master of Computer Science, December 2022 (Expected)
Relevant Coursework: Machine Learning, Intro to Cryptography, Object-Oriented Software Specification and Construction, Software Testing

University of Virginia, Charlottesville, VA   **GPA:** 3.40/4.0
Bachelor of Arts in Computer Science & Financial Economics, May 2021
Relevant Coursework: Artificial Intelligence, Cloud Computing, Database Systems, Algorithms, Computer Architecture, Theory of Computation, Empirical Finance, Econometric Methods, Corporate Finance

SKILLS

Docker, AWS, SQL, Python, Java, C++, ArcGIS, Latex, STATA, R, MATLAB, Microsoft Office Suite

RELEVANT PROJECTS

Robot Dashboard (2021)
- Created Elasticsearch database containing robot work log and heartbeat data
- Used Retool Dashboard to Display information using SQL and Javascript queries
- Created python file to generate data

K-Nearest Neighbors (2021)
- Implemented k-nearest neighbors in python by using k-means clustering
- Trained KNN algorithm to classify numbers using the MNIST dataset
- Initialized centers with furthest first initialization

Yu-Gi-Oh Database (2020)
- Created database on Yu-Gi-Oh cards using MySQL
- Created website using php and connected it to MySQL server
- Allowed users to modify the database server by interacting with the website

Handwritten Equation Solver (2020)
- Created application that accepts handwritten mathematical expressions and calculates them
- Used minimum spanning tree to partition expression
- Used 2d geometric relationships to determine structure of the relationship

EXPERIENCE

Information Systems Intern (May 2018 - August 2018)
United States Army Corps of Engineers (USACE), Washington D.C.
- Mapped out data centers, USACE office, and other places of interest using data in different formats to show how changing the path data travels would increase the internet speed
- Developed an interactive story map in ArcGIS.
- Developed a tutorial for how to use ArcGIS to do specific actions such as mapping points from addresses or longitude and latitude.
- Interacted with clients, colleagues, and supervisors on progress of the project and made necessary changes to suit the client's needs.

AWARDS AND ACTIVITIES

Dean's List
American Collegiate Rowing Association National Championship 2nd place in the Novice 8+ category 2018
Washington Post All-Met honorable mention for rowing 2017
UVA Rowing, 2017-2019.