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SKILLS

Proficient In:

Java HTML CSS React.js
Python JavaScript SQL C++

Competent With:

AWS Lambda DynamoDB Pandas JavaFX
Node.js Express.js PHP Agile (Scrum)

Some Knowledge Of:

MongoDB Linux/Unix Bash Docker
Android Studio Firebase TensorFlow/Keras
Azure VM

CERTIFICATIONS

AWS Solutions Architect – Associate (In Progress)

RELEVANT COURSES

Introduction to Program Design
Introduction to Computing
Data Structures & Algorithms
Discrete Structures in Computing
Programming Languages
Design & Analysis of Algorithms
Programming Studio
Introduction to Computer Systems
Linear Algebra
Principles of Statistics
Operating Systems
Machine Learning
Competitive Programming
Networks and Distributed Processing (In Progress)

HACKATHONS

TAMUHack – Spring 2019
HackDFW – Spring 2019
HowdyHack – Fall 2019
TAMUHack – Spring 2020

HONORS AND AWARDS

🏆 USA Computing Olympiad Gold Division

AOLIN (ALLEN) YANG

EDUCATION

Texas A&M University

B.S. in Computer Science, Minor in Mathematics, GPA: **3.86**
Computer Science Honors | University Honors | Corps of Cadets

May 2022
College Station, TX

EXPERIENCE

Intelligent Radiant Heating Control
University Research

August 2021 – Present
College Station, TX

- Analyze **9 GB** of various sensor data from homes powered by radiant heating in order to predict temperature fluctuations based on heater state
- Generate heater schedule that minimizes energy consumption and maximizes user comfort using **square wave interval tuning**

Technology Internship Program
Capital One

June 2021 – August 2021
Virtual

- Expedited the emergency authorization process of **AWS** account access by writing and systematically testing APIs that manage the authorization of urgent access requests
- Reduced **AWS** account access-granting latency from **10 minutes** to **1 minute**
- Used **Python** for writing APIs and **AWS Lambda & DynamoDB** for deployment

Flood Damage Prediction
University Research

August 2020 – December 2020
College Station, TX

- Prepared over **50 GB** of Hurricane Harvey flood data for **supervised learning** by cleaning and extracting necessary information from the data
- Trained **KNN** and **SVM** models in order to fit models for regional damage prediction
- Performed preparation & training using **multiprocessing** on **Azure Virtual Machine**

PROJECTS

Reddit Sentiment Collector

August 2021 – Present

- Engineering a script that captures the daily sentiment fluctuations of various subreddits and records that data daily using **AWS Lambda** and **DynamoDB**
- Using **VADER** in **Python Natural Language Toolkit** to determine sentiment polarity
- Planning on adding a frontend to visualize recorded data as final step

Reversi: Oblique

June 2019 – July 2019

- Developed **JavaFX** application that lets users play a modified version of Reversi against an AI or against other players through **LAN** via **Java Socket**
- Implemented AI using the **Alpha-Beta Minimax Algorithm** with a max tree depth of **7**

LEADERSHIP

Cadet Officer (Senior)

August 2018 – Present

Corps of Cadets, Texas A&M University

College Station, TX

The Corps of Cadets develops well-educated leaders of character who are prepared for the global leadership challenges of the future.

- Managing a team of **seven** cadets to organize various events and implement systems in order to guide a unit of **60** cadets to academic and career success

Aggie Toastmasters

January 2019 – Present

Toastmasters International, Texas A&M Chapter

College Station, TX

- Developed essential public speaking and communication skills as a member by hosting meetings and giving speeches in front of a diverse audience