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github.com/aolinyang
devpost.com/aolinyang

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   May 2022
Bachelor of Science in Computer Science, GPA: **3.86**   College Station, TX
Minor in Mathematics
Computer Science Honors | University Honors | Corps of Cadets

EXPERIENCE

Technology Internship Program   June 2021 – August 2021
Capital One   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   August 2020 – December 2020
University Research   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**

Software Engineering Internship   January 2020 – August 2020
Synchrogrid, LLC   College Station, TX

- Allowed business clients to simulate power grid faults by building a fault simulation and visualization feature in **React.js**
- Utilized **D3** in order to allow clients to visualize fault graphs

PROJECTS

Reddit Sentiment Collector   August 2021 – Current

- 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