

☎ (301)250-5825
✉ alenyang2813@gmail.com
🌐 alenyang.info

🌐 linkedin.com/in/aolin-yang
🐙 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
Computer & Network Security (Fall 2021)
Networks and Distributed Processing (Fall 2021)

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

Minor in Mathematics (after Fall 2021)

Computer Science Track Honors | University Honors | Corps of Cadets

EXPERIENCE

Technology Internship Program

June 2021 – August 2021

Capital One

- 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

- 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 on the data in order to predict regional damage
- Performed preparation & training using **multiprocessing** on **Azure Virtual Machine**

Software Engineering Internship

January 2020 – August 2020

Synchrogrid, LLC

- 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 Sergeant (Junior)

August 2018 – Present

Corps of Cadets, Texas A&M University

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

- Trained **20** freshmen as a sophomore to be excellent cadets and students
- Guided unit of **60** people as a junior to help them succeed in their career paths

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