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## SKILLS

Proficient In:

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

Competent With:

Azure VM Pandas JavaFX  
Node.js Express.js PHP Agile/Scrum

Some Knowledge Of:

MongoDB Linux/Unix Bash Docker  
Android Studio Firebase TensorFlow/Keras  
AWS

## 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

## EXPERIENCES / PROJECTS

Technology Internship Program

June 2021 – Current

Capital One Bank

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** for deployment

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

Flood Prediction Research

August 2020 – December 2020

University Research

College Station, TX

- Prepared over **50 GB** of Hurricane Harvey data for supervised learning by cleaning them and condensing them into **Pandas** dataframes with desired columns
- Trained **KNN** and **SVM** models on them in order to predict regional damage
- Performed preparation & training using **multiprocessing** on **Azure Virtual Machine**

Trip Planner

July 2019 – August 2019

Personal Project

- Designed a web application that lets users manage trip plans in detail
- Implemented backend in **Express.js** and frontend in **React.js**

Reversi: Oblique

June 2019 – July 2019

Personal Project

- Developed **JavaFX** application that lets users play a modified version of Reversi against an AI or against other players through **LAN**
- 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

College Station, TX

*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