Alan Tin Ta

AlanTa.858@gmail.com ⊙ (858) 335-1284 ⊙

EDUCATION

San Diego State University, San Diego, CA.   *August 2015 to August 2020*

Bachelor of Science in Computer Science

Relevant Coursework

- Computer Architecture, Systems Programming, Data Structures, Computer Simulations, Computer Algorithms, Wireless Networks, Networks and Distribution Systems, Computer Security, Operating Systems, Discrete Mathematics, Linear Algebra

SKILLS

Programming languages:

    Kotlin, Java, C/C++, Python

Tools/Databases:

    Git, Gradle, Firebase Services, Sqlite3

Technologies/Environment:

    Visual Studio Code, Android Studio, Windows, Linux, Mac OS

PROJECTS

Car Rental System

April 2021

- Developed a **C/C++** car rental service capable of handling rental fees, car listings, client information, and transaction history.
- Designed to prompt a standard input stream for inserting the necessary data and a formatted standard output stream for the UI.
- Implemented a **Sqlite3** CRUD database to store data and maintain data consistency between tables.
- Incorporated the **Boost framework** to handle lexical conversions of values in order to maintain the programs functionality and purpose.

WeChore

February 2021

- An Android application developed for the **Android API +29** version that allows users to form groups and organize house chores together.
- Constructed with a **Kotlin** + **XML** frontend and **Google Firebase** backend through **Android Studio.**
- User account information is authenticated, stored, and protected with Cloud Firebase and Realtime Database.
- Incorporated the **Glide framework** to handle image fetching, resizing, and loading.
- Utilized **Gradle** to manage the building process and incorporate dependencies and plugins.

Keylogger

May 2020

- A **Python** program that is capable of recording keyboard inputs, username, public IP, time, and date.
- Utilized the **Pynput** library to allow the program to listen and record keystrokes on a text file.
- Obtained the public IP and username using the **Request** & **Socket** libraries, respectively.

LEADERSHIP/EXTRACURRICULAR

Vietnamese Student Association - Social Media Chair   *August 2017 to May 2018*

- In charge of maintaining and regulating all forms of social media for the club.

San Diego State Cyber Defense Team   *February 2018 to May 2019*

- Learned about computer system defensive protections, as well as offensive capabilities such as NMAPs, port scans, and brute force attacks.