# Elliot Tan

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## Objective

Searching for a 2021 summer internship to apply knowledge of data analytics, data mining, data structures, database organization and software development to have a meaningful impact on society.

## Education

**Pursuing Coterminal degree (B.S & M.S) in Computer Science**
*Illinois Institute of Technology*

Expected Graduation: May 2022
Current Major GPA 3.957/4.0

## Projects

**Flight Booking Application**
- Designed entity relationship model to plan interactions between tables within the flight booking database.
- Created Data Definition Language and all SQL queries used by the application.
- Developed Graphic User Interface using Java JFrames for front end user application.
- Utilized PostgreSQL server as the backend of the application.

**Movie Recommender**
- Created movie genre profiles by vectorizing the genres associated with each movie in R.
- Generated similar genre profiles for users based on their genre interests in R.
- Compared user interests to movie genre profiles using cosine similarity to predict the top 10 movies the user was likely to enjoy.

**Fire Incidence Heatmap**
- Collaborated with other students to produce a fire incidence heat map using real fire incident data from the American Red Cross.
- Used pandas and plotly to generate graphs for data visualization and to draw information such as fire incident frequencies from each county in Chicago.

**Cru organization website**
- Designed, wrote, and completed a website in HTML and CSS to centralize Cru's information and make it easily accessible and visually appealing to the public.

## Work experience

**Software Developer**
*Metropolitan Wireless International*

April 2018 - June 2018

**Support Desk Assistant**
*Illinois Institute of Technology, Office of Technology Services (OTS)*

July 2019 - Present

**Company Quartermaster Sergeant**
*Singapore Armed Forces, BMTC School 2, N Company*

Oct 2015 - Oct 2017

## Coding Languages

Java, Python, SQL, R, C, Haskell, Ocaml, HTML, CSS

## Spoken Languages

English, Mandarin

## Leadership & Volunteer experience

**Cru**
- Planned meetings, events and activities such as retreats to encourage bonding between members
- Facilitated weekly group discussions with 5 - 9 members

**Overseas experience**
- Learnt of effects of poverty by volunteering at a non profit organization near the slums of Quezon City, Philippines