

# THOMAS THURAIN TUN LIN

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## EDUCATION

CARNEGIE MELLON UNIVERSITY - *B.S In Computer Science*

| AUG 2017 - MAY 2021

### RELEVANT COURSEWORK:

Functional Programming, Computer Systems, Human AI Interaction, Machine Learning, Parallel & Seq Data Structures, Algorithm Design, Foundations of Programming Languages, Parallel Compiler Architecture

## EXPERIENCE

AMAZON - *SDE Intern*

| JUN 2020 - AUG 2020

- o Implemented a self-service API aimed at improving long term scalability of the project
- o Worked with SQL Databases to grant permissions to system users to automate a manual process
- o Created internal and customer-facing documentation that outlines features implemented
- o Personally onboarded multiple teams to using system users for permissions

CMU CS ACADEMY - *Development Team*

| MAY 2019 - AUG 2019

- o Redesigned front-end features for use in high school classrooms across all 50 states using React.
- o Built prototype of image autograding script with a pixel-by-pixel algorithm to provide more accurate feedback and a visual representation of the programming errors
- o Coordinated with teachers across Pennsylvania to improve curriculum

NEXLABS - *Software Engineering Intern*

| JUN 2018 - JULY 2018

- o Used React to help develop app that connects devices to streamline office logistics and communication

## PROJECTS

### SAMMYBOT THE CHATBOT

- o Used Twitter API to set up a chatbot that responds dynamically to questions about the weather in Pittsburgh and the courses and facilities offered at Carnegie Mellon University

### MOVIE RECOMMENDER SYSTEM

- o Wrote python script using a database of movies to recommend movies to users based on preferences

### GESTURE RECOGNITION

- o Wrote a python script that used gyroscope data from a smart phone to identify actions, reaching an accuracy of 87% compared to the class average of 76%

## LEADERSHIP

OPERATION PURIFICATION - *President*

| AUG 2015- JAN 2017

- o Redesigned project aiming for long term maintenance of playground rather than regular cleanings
- o Led group of 20 students in creating an area to better facilitate drop-off and pickup of children

GLOBAL ISSUES NETWORK - *President*

| AUG 2015- MAY 2017

- o Planned numerous projects setting up soup kitchens, donating money to relief funds, and cleaning up the environment
- o Led a group of 200 students with an aim of establishing global awareness of issues

## SKILLS

- o JavaScript, Java, React, HTML, CSS, Python, C++, C, SML, CUDA, Bash, Pandas, NumPy, SQL
- o Adobe Photoshop, Adobe Illustrator, Krita, Blender