Eric Chang

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EDUCATION

Case Western Reserve University | *B.S. in Computer Science*   **Cleveland, OH**
*Cumulative GPA: **3.3/4.0***   *Grad: May 2022*

RELEVANT COURSEWORK

Programming in Java	**Algorithms**	**Data Structures**
Logic Design and Computer Org	**Database Systems**	**Operating Systems**
Software Craftsmanship		**Intro to Artificial Intelligence**

EXPERIENCE

BAE Systems - Endicott, NY   **May 2020**
Software Engineering Intern
● Accepted a summer internship offer with BAE Systems which was ultimately rescinded due to Covid-19.

Anthony's Coal Fired Pizza - Wayne, PA   **Sept 2017 - June 2018**
Host/Busser
● Worked with management, kitchen, and wait staff to ensure smooth day-to-day operations of the restaurant.
● Greeted and led patrons to their tables as they entered the store.
● Managed restaurant flow and wait-list when tables were full.
Skills used: Communication, Customer service

PROJECTS

8-puzzle Artificial Intelligence
● Created an AI program to successfully solve the 8-puzzle using A* search and Local Beam search techniques.
● Optimized A* search techniques by ~20% by finding the total distance of misplaced tiles for the heuristic function.

Jewels
● Created a puzzle game with JavaFX GUIs where random new blocks are dropped into the board as they are cleared.
● Improved functionality to allow users to enter a desired board size using command-line arguments.

Courses
● Remodeled sign-up process for students to sign up for courses using ArrayList and LinkedLists.
● Implemented methods finding the number of elements, adding courses, searching for courses, removing courses, and changing the max capacity of a class.

Personal Website
● Built a personal website to showcase my resume and relevant social media links (HTML/CSS).
● Hosted the website on Github and linked it to a custom domain: EricChang.info

The Googler
● Created a program using Java Tesseract OCR to quickly Google search the answers of trivia questions live-streamed through the smartphone, which successfully answered 70% of the questions in real time.

LEADERSHIP AND EXTRACURRICULARS

Dhamakapella *(Music Director)*   **August 2018 - Present**
● Directed CWRU's award-winning South Asian Fusion A Cappella group by orchestrating weekly rehearsals.
● Performed at the International Championship of Collegiate A Cappella Midwest Semifinals,

Google Developer Student Clubs *(Secretary/Risk Manager)*   **August 2020 - Present**
● Co-founded a club which aims to teach Google technologies and build projects to solve problems in the community.
● Worked to ensure that club meetings were complacent with CWRU's Covid guidelines for in-person meetings.

ADDITIONAL INFORMATION

Language Proficiencies: English (Native); Mandarin Chinese (Native); French (Proficient)
Computer Proficiencies: Java; JUnit; HTML; CSS; Python; R; Microsoft Office (PPT, Word, Excel)