Evan Chang

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Education

University of California, San Diego
Bachelor of Science, Mathematics-Computer Science
SEPTEMBER 2016 - JUNE 2020
Cumulative GPA: 3.494
Junior Standing

Relevant Coursework

COMPUTER SCIENCE

Object-Oriented Programming, Data Structures, Software Tools and Techniques, Discrete Mathematics, Computer Organization and Systems Programming, Algorithms (on-going)

MATHEMATICS

Linear Algebra, Calculus and Analytic Geometry, Differential Equations, Vector Calculus, Mathematical Reasoning, Combinatorics, Statistical Methods, Modern Algebra (on-going)

COGNITIVE SCIENCE

Introduction to Data Science, Data Science in Practice

Skills

Proficient in
- Java
- C++
- C
- Python
- Unix/Linux
- vim

Experience in
- ARM architecture
- BASH
- html
- js
- css
- R
- gdb

- git
- adb
- SQLite
- MATLAB
- Photoshop
- Microsoft Office Programs

Work Experience

Robosion   JULY 2018 - SEPTEMBER 2018
Software Development Consultant
- Trained natural language processing AI (Wit.AI, Amazon Lex, DialogFlow) to understand a user for English teaching robot.
- Developed games and conversations for robot in Android Studio.
- Created and organized spreadsheets and SQLite database for robot's content.
- Managed two writers to create content for robot.

Projects

UCSD Class Scheduler Chrome Extension
- Adds a button to UCSD class scheduling site that adds class schedule to Google Calendar.

YouTube Trending Videos Exploration
- Worked in a team to find how videos go trending on Youtube through correlations between videos.
- Cleaned, scraped, and analyzed publicly accessible data on YouTube's trending videos.

Huffman Compress/Decompress Program
- Implemented encoding and decoding of any file with bitwise I/O.
- Used Huffman algorithm to encode/decode efficiently.

Six Degrees of Kevin Bacon
- Designed and implemented a graph that finds the shortest path within six degrees between two actors through co-actors in movies they have starred in.

Egyptian Ratslap Game
- Replicated the card game Egyptian Ratslap for two players in Java with a GUI.

Awards

Meritorious Award in High School Mathematical Contest in Modeling (HiMCM)

- Created a mathematical equation to find the amount of time it takes for a train full of people to exit a station for a 36 hour mathematical model team-based competition.