KARIME ROBLES

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EDUCATION

Columbia University   December 2021
B.A. in *Computer Science*
Relevant Courses: Intro to CS & Programming (Java), Data Structures & Algorithms (Java), Advanced
Programming in C/C++, CS Theory, Discrete Math, UI Design, Databases, Fundamentals of Computer Systems
Current: Analysis of Algorithms I, Advanced Software Engineering, Programming Languages & Translators

PROJECTS

Weather iOS App   June – July 2020
- Self-taught and developed a Weather app for iOS/iPadOS in Swift
- Built utilizing the MVC Design Pattern, server requests and JSON parsing, user location, Apple Maps API, and multi-window support on iPad

BMI Calculator iOS App   May – June 2020
- Self-taught and developed a BMI Calculator app for iOS/iPadOS in Swift
- Built utilizing the MVC Design Pattern, multi-screen navigation and data transferring, designed and developed data structures, multi-window support on iPad

Dog Breeds   February – March 2020
- Independently developed the backend, frontend and design of a website to learn about different dog breeds
- Utilized: Flask backend python server, HTML, CSS, JavaScript, JQuery and Twitter's Bootstrap
- Added functionality for user input, queries, screen adaptability, website routing, and error handling

Modified Echo Program   October 2019
- Generated an echo program in C which takes in command line arguments and prints each argument in lowercase then uppercase. This consists of copying the memory structure created by the user input, and using pointers to traverse an array of array pointers and access each character of the string at each index

Video Poker   April 2019
- Wrote a program in Java for a single player poker game. This includes designing and developing 4 classes:
  - A class which creates types of cards (recognizing suits/ranks and being able to compare them)
  - A class which controls the deck of cards (creating a deck of 52 cards, shuffling and dealing a hand)
  - A class for the Human player which can accept their bet, return their winnings, remove/replace cards in their hand and empty their hand
  - A class for the game which prompts the user to input their bet, scores the players hand, tells them what they won, and ends when the player runs out of tokens

Invalid Login Attempts   March 2019
- Devised a program in Java which takes as an input a file with a list of login attempts from different IP addresses and returned a file with a list of the IP addresses that failed to log in at least 3 times

WORK EXPERIENCE

Columbia University   August 2019 – Present
Resident Advisor
• Offer advice on safety procedures, security precautions, community adjustment, and well-being to 61 residents

Columbia Secondary School   November 2017 – Present
Admissions Exam Grader
• Grade the written sample English portion of the Middle/High School admission exam

The Italian Academy for Advanced Studies at Columbia University   October 2017 – Present
Administrative Assistant
- Carry out general office functions: read and route all incoming emails, compose and post promotional material for all events (Twitter/Facebook and Newsletters), conduct database research using Google Analytics, and assist with website upkeep (making new event webpages, profile pages for Fellows, etc)

TECHNICAL SKILLS

Languages: Java (Proficient), HTML (Proficient), CSS (Proficient), JavaScript (Intermediate), JQuery (Intermediate), Swift (Beginner) , C (Beginner), Python (Beginner)