Kevin K Leong

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OBJECTIVE: To obtain a summer internship in the engineering industry.

EDUCATION:

Southern Methodist University — Dallas, TX
Bobby B. Lyle School of Engineering — Grad Date: May 2023
Bachelor of Computer Science (B.S.) — GPA: 3.95
Meadows School of The Arts
Bachelor of Creative Computing (B.A.)

RELEVANT COURSES: Introduction to Engineering and Design, Data Structures, Programming Concepts, Linear Algebra Principles of Computer Science, Assembly Language Programming and Machine Organization, Engineering Statistics

SKILLS: C++, JavaScript, Object Oriented Programming, Maya, Microsoft Windows, macOS, Microsoft Excel, Microsoft Word, Microsoft PowerPoint

ENGINEERING PROJECTS:

Introduction to Engineering Design — Spring 2019
- Designed and built a robot capable of locating specific IR signals and traveling an exact distance with 98% accuracy
- Created and calibrated a sensor that can detect up to 1% salinity in water with a 95% accuracy
- Kept detailed and precise analytical data on the testing and calibration of the salinity sensor and navigational performance of the robot

Block Chain — Spring 2019
- Made a simplified block chain network using polymorphism and object-oriented programming
- Can parse through a text file of transactions and print out formatted peer ledgers

Sentiment Analysis — Fall 2020
- Parsed 40,000 movie reviews and creates a sentiment value for each word
- Developed an algorithm that uses frequency analysis to sort movie reviews as either positive or negative in sentiment with a 68.6% accuracy
- Implemented my own string wrapper class

Auto Indexer — Fall 2020
- Designed a program that parses through a formatted text and creates a detailed index of words and page numbers
- Implemented my own templated vector and linked wrapper classes

Flight Planner — Fall 2020
- Created an adjacency list of flight objects that includes the flight path, cost, time, and airline of any particular flight
- Utilized iterative backtracking to output the cheapest or fastest route between any two cities from the adjacency list
- Implemented my own adjacency list and stack wrapper classes

EXPERIENCE:

Introduction to Engineering and Design, *Teaching Assistant,* Dallas, TX — Spring 2020
- Designed and calibrated a salinity sensor that can detect up to .001% salinity in water
- Provide both mechanical and technical mentorship to current students in the class

ACTIVITIES: Loyd Commons Executive Board, Chief of External Affairs
GatorAid Tutoring, Public Relations Officer and Web Developer

AWARDS:
SMU Hilltop Scholar
SMU Discovery Scholar
SMU Distinguished Scholar
SMU International Baccalaureate Scholar