Kannika Armstrong

CONTACT

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a-kannika.github.io/v1

github.com/A-Kannika

MY SKILLS

- Java
- Python
- JavaScript
- R
- SQL
- HTML
- CSS
- Angular

ACHIEVEMENTS

Chancellor's List

Pierce College, Puyallup, WA
Spring and Fall Quarter 2020

Meteorologist/Climatologist

Thai Meteorological Department
May 2006 – May 2018

EXPERIENCE

Professional Tutor (Part-time)

June 2021 - Present
Pierce College, Puyallup, WA

Peer Tutor (Part-time)

October 2020 - June 2021
Pierce College, Puyallup, WA

LANGUAGES

- English
- Thai

EDUCATION

Bachelor of Science in Computer Science and Systems

January 2021 - December 2022 // University of Washington Tacoma

Accumulated GPA: 3.98

AA DTA, Computer Science

January 2020 - December 2020 // Pierce College, Puyallup, WA

Bachelor of Science in Physics, minor in Mathematics

May 1999 - March 2004 // Chiang Mai University, Chiang Mai, Thailand

PROJECT EXPERIENCE

Maze Generator Program

Technology used: Java

- Built the graph data structure and implemented a graph by using the depth-first search algorithm.
- Built program to create the 2-dimension maze with no cycles, and the algorithms exist to generate random mazes.

Compressed Literator version 2 Program

Technology used: Java

- Built program to compress characters file from 3214 Kb to 1011 Kb n a binary file format with less than 1 second running time.
- Built the hash table data structure and handled collisions in the hash table to store over 20000 pieces of data.
- Used the words as symbols in the Huffman algorithm to improve compression.

Compressed Literator version 1 Program

Technology used: Java

- Built program to compress characters file from 3214 Kb to 1832 Kb in a binary file format with less than 1 second running time.
- Created program by using the minimum heap data structure and used a priority queue efficiently.
- Implemented the Huffman compression algorithm.
- Built program to uncompress the binary data back to characters data.

My Personal Website Version 1

Technology used: JavaScript, HTML, and CSS

- Created the first personal website, the first self-taught project to learn JavaScript, HTML, and CSS.
- Designed and developed the page frameworks.