HYUNSEOK(AIDEN) JUNG

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EDUCATION

Bachelor of Arts, Dec 2022
Computer Science & Mathematics Grinnell, Iowa
Grinnell College

Cumulative GPA : 3.835 / 4.000
Major GPA(Computer Science) : 3.875 / 4.000
Major GPA(Mathematics) : 3.926 / 4.000

PROJECTS

3D Reconstruction from Video - Matlab
Noc 2022 - Dec 2022

- Reconstructed a 3D model from a video
- Used two optimization methods: Damped Newton Method & Bundle Adjustment.

Wordle Solver - C
Nov 2022 - Dec 2022

- Built a wordle solver using Multithreading & Thread Synchronization.
- Managed the word dataset based on Unix File System.

Image Processing - Matlab
Oct 2022 - Nov 2022

- Explored and built various image filters.
- Extract features of different images and match them.
- Stitch images with their matched features.

Wine Consumption Rate Modeling - R
Apr 2022 - May 2022

- Predicted a customer's wine consumption rate based on his/her characteristics with random forests.

Matching Audio and Video - Python
Dec 2021 - Jan 2022

- Developed AVOL(Audio-Visual Object Localization) network to match audio and video, using tensorflow.

Sound Crash Course - R & Javascript
Nov 2021 - Dec 2021

- Built an R shiny app for a sound crash course.
- Visualized sound data, using D3 javascript package.

Attractiveness Modeling - R
Nov 2021 - Dec 2021

- Created a model for statistical analysis on individuals' evaluation about their partner's physical attractiveness in speed dating, using logistic regression.

UTF-8 String Search - C
May 2021

- Developed a program for string search algorithm in UTF-8 documents, using finite automata.

Efficient Exponentiation - Java
Feb 2021

- Developed a program that calculates exponentiation in a more efficient way, using Dijkstra's algorithm.

MY LIFE PHILOSOPHY

"Any sufficiently advanced technology is indistinguishable from magic."
- Arthur C. Clarke -

COURSEWORK

Computer Science

- Functional Problem Solving
- Imperative Problem and Data Structures(Robots)
- Object-Oriented Problem Solving, Data Structures, and Algorithms
- Analysis of Algorithms
- Software Design and Development with Lab
- Automata, Formal Languages, and Computational Complexity
- Operating Systems Parallel Algorithms
- Computer Vision

Mathematics

- Calculus
- Linear Algebra
- Discrete Bridges to Advanced Mathematics
- Foundations of Abstract Algebra
- Foundations of Analysis
- Advanced Topics in Analysis
- Introduction to Data Science
- Applied Statistics
- Statistical Modeling
- Econometrics

TECHNICAL SKILLS

Languages

C/C++ | Java | R | Python | Matlab | HTML/CSS | Javascript | Maple

SOFT SKILLS

Problem-Solving | Passionate and Curious Learner | Time Management | Responsibility | Communication/Teamwork

LANGUAGES

English ●●●●●
Korean ●●●●●
French ●○○○○