

Education and Honors

Grinnell College

August 2017 - May 2023

- Bachelor of Arts in Computer Science, Statistics Concentration
- Cumulative GPA: 3.87 / 4.0, Major GPA: 4.0 / 4.0 (Dean's List)
- Relevant Coursework: Analysis of Algorithms, Software Design and Development, Object-Oriented Programming, Intro to Reinforcement Learning, Data Science, Graph Theory

Tapia 2022 Scholarship

August 2022

- Received Tapia scholarship, an award reviewed by over 90 professionals in industry and academia.

Specialized Skills

Languages: Java, R, C, HTML, CSS, JavaScript, Python, Racket

Tech Experience

Research Assistant

ELBICA Lab, Grinnell College

May 2022 - August 2022

- Investigated coordination challenges in multi-agent systems by designing and implementing testbeds with 270 agents to assess reinforcement learning algorithms in Webots using **Java**.
- Researched cognitively inspired computational architecture by conducting a literature review on affective computing and presenting it to the advisor every week.
- Selected among eight lab members to receive full funding for the ISRE 2022 conference.

Teaching Assistant

Computer Science Department, Grinnell College

August 2021 - Present

- Mentored students by guiding labs, creating practice quizzes, and holding weekly mentor sessions (Fall 2021 – Imperative Programming in **C**, Spring 2022 – Software Design and Development, Fall 2022 – Operating Systems and Parallel Algorithms in **C**).
- Received positive feedback from both students and faculty mentors, resulting in return offers.

SDE Intern / Translator

Genicle, Seoul

May 2020 - July 2020

- Advertised the prototype product of a bioengineering startup company by creating and deploying web pages using **HTML, CSS, and JavaScript** (genicle.com / medisen.co.kr).
- Translated live meetings and documents to conclude a contract with a cell banking company.

Additional Professional Experience

Sergeant

Republic of Korea Army

June 2018 - January 2020

- Facilitated the reserve force training by giving a demonstration of individual combat skills.
- Earned an award from the Corps Commander for accurately arranging reserve force training sessions.

Programming Projects

Reinforcement Learning Algorithm Testbed (Java, Webots)

April 2022

- A testbed for a reinforcement learning algorithm (hysteretic q-learning) to assess different parameters and environments in a multi-agent matrix game.

Anti-Drowsiness HUD (Java, Android Studio)

January 2022

- An Android App that can be placed under the front window of a car to prevent drowsiness.

Graduate School Program Finder (R, Shiny)

December 2021

- An interactive Shiny app to browse graduate school programs filtering by location, area of study, degree, tuition, deadline, and other criteria.

Sudoku Solver (C, CUDA)

May 2020

- A parallel C program to solve numerous sudoku puzzles simultaneously using the GPU and CUDA.