

## Education

<b>Grinnell College</b>	<b>Expected May 2023</b>
<ul style="list-style-type: none"><li>Bachelor of Arts in Computer Science (Statistics Concentration)</li><li>Cumulative GPA: 3.86 / 4.0, Major GPA: 4.0 / 4.0</li><li>Relevant Coursework: Analysis of Algorithms, Software Design and Development, Intro to Reinforcement Learning, Object-Oriented Programming, Data Science, Statistical Modeling, Graph Theory</li></ul>	
<b>The University of Iowa (Dual-Enrollment)</b>	<b>Expected May 2024</b>
<ul style="list-style-type: none"><li>Master of Computer Science</li></ul>	

## Specialized Skills

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

Research: Affective Computing, Reinforcement Learning, Data Visualization, Robot Simulator

## Professional Experience

<b>Research Assistant</b>	<b>ELBICA Lab</b>	<b>May 2022 ~</b>
<ul style="list-style-type: none"><li>Investigated cognitively inspired computational architecture by designing and implementing testbeds to assess different reinforcement learning algorithms in Webots.</li><li>Assisted advisor in development of their research argument by presenting analysis of research papers on affective computing every week.</li><li>Selected to receive funding from school to attend the ISRE 2022 conference.</li></ul>		
<b>Teaching Assistant</b>	<b>Grinnell College</b>	<b>August 2021 ~</b>
<ul style="list-style-type: none"><li>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)</li><li>Got offers every semester by acquiring positive feedback from both students and faculties.</li></ul>		
<b>Intern</b>	<b>Genicle</b>	<b>May 2020 - July 2020</b>
<ul style="list-style-type: none"><li>Built web pages to advertise the proto-type product of a bio-engineering start-up company. (geincle.com / medisen.co.kr)</li><li>Accelerated workflow by attending meetings as a translator and translating documents.</li></ul>		
<b>Sergeant</b>	<b>Republic of Korea Army</b>	<b>June 2018 - January 2020</b>
<ul style="list-style-type: none"><li>Earned an award from Corps Commander for accurately arranging reserve force training sessions in the administration system and attaining the best examination score in Gapyeong County.</li><li>Facilitated the reserve force training by giving a demonstration of individual combat skills.</li></ul>		

## Programming Projects

<b>Reinforcement Learning Testbed, Java</b>	<b>April 2022</b>
<ul style="list-style-type: none"><li>A testbed for a reinforcement learning technique (hysteretic q-learning) to test different parameters and environments for two agents in a matrix game.</li></ul>	
<b>Anti-Drowsiness HUD, Java</b>	<b>January 2022</b>
<ul style="list-style-type: none"><li>An Android Head-up Display App that can be placed under the front window of a car to prevent drowsiness with the watching-eye effect using the accelerometer.</li></ul>	
<b>Graduate School Program Finder, R</b>	<b>December 2021</b>
<ul style="list-style-type: none"><li>An interactive-map Shiny app to browse through graduate school programs filtering by location, area of study, tuition, and other criteria.</li></ul>	
<b>Robot Obstacle Control, C</b>	<b>March 2020</b>
<ul style="list-style-type: none"><li>A program that governs Scribbler 2 robot behavior to avoid obstacles and dance.</li></ul>	