

Junwoo Jang



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SKILLS SUMMARY

- **Programming Languages:** Python, C, C++, Java, MATLAB, Shell Script (Bash), SQL, R, Verilog, Assembly, and Visual Basic & httpfox.
- **Technical Skills:** Data Science Research, Supervised (Random forest) and Unsupervised (K-Means, DBSCAN, Optics) Machine Learning algorithms, Linux Programming, UI/UX Design, Frontend and Backend, Test Analysis, HTML, Linear Algebra (vector spaces and matrix systems), Statistics, Calculus.
- **Languages:** Bilingual in English and Korean.

EDUCATION

University of Colorado Boulder, Boulder, CO August 2022 – Current
Master of Science in Computer Science

Texas Tech University, Lubbock, TX August 2019 – May 2022
Bachelor of Science in Computer Science and Minor in Mathematics **Cumulative GPA: 3.57**

EXPERIENCE

CSCI 3022: Intro to Data Science with Statistics, University of Colorado Boulder August 2022 – Current
Teaching Assistant: Grader

- Created grading rubrics from the main points of each solution, and graded exams and homeworks.
- Checked plagiarism over 180 submissions by directly comparing them with each other and with online sources.

Data Science Research, Texas Tech University May 2021 – January 2022
Research Assistant

- Evaluated students' answers for CStats project and transcribed video interviews of the project.
- Reviewed CStats project paper about machine learning, logic-based AI, and R programming (Sort function and sum, min, max functions over vectors).
- Conducted research on linear regression, various frequency concepts, and set builder syntax and semantics applications by collaborating with a Professor and Research Assistants.

Mad Mind, South Korea April – August 2014
Marketing Program Developer

- Developed marketing programs with Visual Basic Winhttp by parsing with httpfox of Firefox, which are used on Naver, Instagram, and Facebook.
- Tested over 100 marketing programs, and fixed general issues and debugging issues.

ENGINEERING PROJECTS & COURSES

Senior Capstone Project January – May 2022

- Developed a socializing app with Android Studio and used the firebase for the backend to store the data to real-time database for log-in system, chat function, and friend request.
- Designed the UI with figma, a use case diagram, a class diagram, an activity diagram, ER diagram and state machine.

Software Engineering August – December 2021

- Developed a supermarket app with eclipse after designing the system with UML and managed the database of market products with MySQL.

Machine Learning January – May 2021

- Conducted team research in self-supervised learning for visual tracking and recognition of the human hand.
- PyTorch project: Developed an image identifier program and delivered a presentation about a framework for contrastive self-supervised learning.

Data Structures: C++ August – December 2019

- Calculated the shortest path from a start node to every other node in a weighted graph using C++.
- Deep understanding of implementations of linear containers such as stacks, queues, and hashed arrays.