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/CSS, 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   **GPA: 3.30**

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

EXPERIENCE

Intro to Data Science with Statistics, University of Colorado Boulder   August – December 2022
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

Legal Named Entity Recognition (NER) Model, Natural Language Processing   August – December 2022
- Developed a Legal Named Entity Recognition (NER) model trained on a dataset of Indian court cases, which is created for the identification of Named Entities in legal documents similar to those used in the model's training.
- Wrote a Research paper that examines the effectiveness of a modified spaCy model trained on bodies of legal texts to perform in the NER for Indian legal documents.

College Dating App (RaiderMeet), 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.

Machine Learning   January – May 2021
- Conducted a 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.