

# Junwoo Jang, MSc



*Eligible to Work in the U.S. Permanently / 5+ years of experience*

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## EDUCATION

**University of Colorado Boulder**, Boulder, CO

August 2022 – May 2024

*Master of Science in Computer Science (Interest: Machine Learning & Data Science)*

**GPA: 3.82**

**Texas Tech University**, Lubbock, TX

August 2019 – May 2022

*Bachelor of Science in Computer Science and Minor in Mathematics*

**GPA: 3.57**

## SKILLS SUMMARY

- **Programming Languages:** Python, SQL, R, C, C++, C#, PowerShell, Java, JavaScript, Scala, Ruby, MATLAB, Shell Script (Bash), Assembly, Verilog, and Visual Basic & httpfox.
- **Technical Skills&Projects(Technical Leadership):** (Self)Supervised/Unsupervised Machine Learning Algorithms, Reinforcement Learning, Deep Learning, Natural Language Processing(spaCy,Apache Hive/Spark/Kafka,Neural Network), Big Data Analytics(AWS S3/Kinesis/Lambda,MongoDB,Kubernetes,Data warehousing&modeling), Computer Vision(Pattern/Image recognition/classification/segmentation), MLOps/DevOps, Github Actions&Git Commands, Linear Algebra(matrix systems), Unix/Linux, High Performance/Distributed Computing, HTML/CSS/PHP, UI/UX, Firebase&Android Studio.
- **Languages:** Bilingual in English and Korean.

## EXPERIENCE

**Motorola Solutions**, Westminster, Colorado

May – August 2023

*Data Science Intern (Full-Time Internship)*

- Visualized data from Microsoft cloud-based SQL database (Microsoft Azure) with Power BI/Tableau, presenting performance of PremierOneCAD with 99 percentile for data summary to stakeholders, and Analyzed highly complex data patterns (Data Mining).
- Collected large-scale datasets, Cleaned out the bad data for database maintenance/database management, and Fine-tuned the databases structures by rearranging the 1:1, 1:N, N:M relationship between the database tables for balanced data integration.
- Collaborated with Software Engineers and Managers (cross-functional) to improve system performance and Streamlined the processing workflows for data access by optimizing SQL queries for Computer Aided Dispatch, Mobile, and Records systems.
- Deep understanding of CI/CD pipeline, Database Technology|Excel,Access|NoSQL, Large Distributed Systems, Data Retrieval from daily deployment&Smoke Testing, Automation Process, and Professional Development of command center software.

**Data Science with Statistics and Probability, University of Colorado Boulder**

August – December 2022

*Teaching Assistant*

- Conducted comprehensive assessments of assignments and exams, and provided constructive feedback, fostering student growth and excellence in Data Science Skills (Statistical Computing/Methods,Matplotlib[Data Visualization],LaTeX,Jupyter Notebooks).
- Collaborated closely with instructors to establish meticulous grading rubrics and assessment guidelines to ensure consistency of evaluations, maintaining the highest academic standards.
- Upheld the utmost integrity and confidentiality in sustaining precise records of student grades, feedback, and solution sheets, ensuring the privacy and security of sensitive academic information.

**Data Science Research, Texas Tech University**

May 2021 – May 2022

*Research Assistant*

- Conducted Research on linear/data regression, frequency concepts, set builder syntax, semantics, annotation application (logic-based-AI-statics concepts), collaborating with Professor, and transcribed CStats for evaluation (peer-review for publication).
- Fine-tuned (model training&model evaluation) and Evaluated machine learning models by utilizing industry-standard libraries (scikit-learn,TensorFlow,NumPy,pandas,PyTorch) & Oracle Database to conduct extensive hyperparameter optimization.
- Implemented data-centric methodologies and Managed model assessment procedures, by referring performance metrics such as accuracy, efficiency, precision, recall, and F1-score, to measure model effectiveness.
- Refined large-scale complex datasets through data cleaning, data preprocessing, data transformation, and Performed experiments, via statistical hypothesis and inference test, through accurate data collection/data gathering and quantitative analysis methods.

**Frime's Marketing**

December 2011 – February 2015

*Software Engineer*

- Developed marketing programs (through MVP & parsing) tailored to the preference of startup owners, Facilitated complimentary versions of essential softwares within the startup community, and Fixed bugs and issues proactively for enhancement and output.
- Achieved remarkable surge of the members for the startup website through strategic technique, surpassing 20,000 new members within a single week (fast-paced), and elevated the website's ranking significantly, increasing its visibility on top search results.
- Led agile development team (cross-functional), delivering projects with commitment to ongoing learning, architected scalable code structures (software design/architecture[scaling,reliability])and fixed/solved debugging issues with 100+ software testings (problem-solving).