Junwoo Jang, MSc

Eligible to Work in the U.S. Permanently | 5+ years of experience
Boulder, CO 80302 | Open to Relocation | 806-999-7592 | Junwoo.Jang@colorado.edu
linkedin.com/in/junwoojang/ | **portfolio:** hangrycoding.github.io/junwoojang

EDUCATION

University of Colorado Boulder, Boulder, CO   August 2022 – May 2024
Master of Science in Computer Science (Interest:Machine Learning & Data Science)   **GPA: 3.76**

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).