Joobee Jung

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EDUCATION

University of Washington *Seattle, WA, United States*
M.S. in Data Science | GPA: 3.88 / 4.0 Sep. 2023 - Mar. 2025
Course: ML for Big Data, Statistical ML, Applied Statistics, Deep Learning, Data Visualization, Software Design, Scalable Data Systems & Algorithms

Kookmin University *Seoul, Korea*
B.S. in Information Management | GPA: 3.86 / 4.0 | Dean's Distinguished Scholar

SKILLS

Programming Languages: Python, Java, R, PHP, Vue.js, Node.js, JavaScript, Kotlin, jQuery, React, Bash, Scikit-learn, TensorFlow, PyTorch
Frameworks: LangChain, Streamlit, Spring, Selenium, Linux, Unix |**DB**: SQL, NoSQL, Pandas, Polars, DynamoDB, IBM DB2, MariaDB, Oracle DB
Tools: Spark, Redis, Jenkins, Postman, Openshift, Istio, Kiali, Grafana, Tableau, IBM SPSS, SAS, Confluence, Git, AWS EC2, RedShift, Bedrock
Soft Skills: Team Player, Fast Learner, Effective Troubleshooter, Leadership Experience, Self-Driven, Robust Documentation, Innovator
Certificates: Engineer Information Processing Certification, SQL Developer Certificate, Microsoft Office Excel Expert

WORK EXPERIENCES

Software Engineer in Test Intern, **Amazon** (Jun. 2024 - Sep. 2024) *Seattle, WA, United States*
- Proposed, designed, and developed an LLMs-powered data analytics dashboard using Python, Streamlit, LangChain, Bedrock, DynamoDB, TestRail API and Lambda, automating workflows and saving 72 hours (*project lead*, from initial proposal to user delivery)
- Implemented a chatbot by analyzing dynamic time series data utilizing knowledge base (Bedrock) and vector database (OpenSearch) for RAG, improving accuracy by 80%.
- Created and executed comprehensive test plans, backend API, end-to-end, and accessibility testing, across desktop, mobile, and tablet covering 250+ test cases, integrated results into daily reports, and automated testing scripts using Java, Selenium, Git

Full-Stack Software Engineer, **KB Kookmin Bank** (Jul. 2020 - Sep. 2023) *Seoul, Korea*
- Accomplished successful global banking integration for 9+ countries from IBM mainframe to a 12 microservice-based architecture using Redhat Openshift, Kubernetes, Agile, and DevOps practices
- Designed and delivered bank transfer, QR Payment, transaction history features for mobile, desktop applications, increasing Monthly Active Users (MAU) by 30% using Java, Vue.js, Node.js, SpringBoot, DB2 SQL, Unix with a large-scale OTLP database (14TB)
- Leveraged Redis for session storage and Jenkins CI/CD for automated service pod deployments, reducing product release time and costs by 50% using Jira, Confluence, Git, Bitbucket
- Configured a service mesh with Istio and Kiali, leveraging Grafana for monitoring to optimize 12 microservices' management and improve application reliability

Full-Stack Software Engineer Intern, **NutraGroup, Inc** (Apr. 2019 - Jan. 2020) *San Francisco, CA, United States*
- Developed a web scraper and ETL data pipeline to collect and transform product and seller data for time-series forecasting, resulting in 10% increase in monthly company profits using Python (Beautiful Soup), PHP, JavaScript, jQuery, MySQL, AWS EC2 and Linux
- Designed and built data analytics dashboard with a RESTful API to reassess vendor products for Amazon product data tracking
- Analyzed sales rates and ROI with time series data utilizing Laravel MVC, PHP, JavaScript, jQuery Ajax, MySQL, AWS EC2, and Homestead

Software Engineer Researcher, **Korea National Rehabilitation Research Institute** (Oct. 2018 - Jan. 2019) *Seoul, Korea*
- Designed and developed a research prototype dashboard and algorithm to assist 2,000 users with disabilities in making exercise and diet decisions using PHP, JavaScript, and MySQL

Software QA Engineer Intern, **Seidor** (Jun. 2018 - Aug. 2018) *Valencia, Spain*
- Developed QA scripts for SAP Hybris e-commerce websites, transitioning from manual to automated testing using Java and Selenium, resulting in a 70% reduction in software testing time

PROJECTS

1st Place at Master of Science in Data Science Hackathon, University of Washington
- Predicted the optimal date and time for a graduation photoshoot to secure visibility of Mt. Rainier and peak cherry blossoms by utilizing historical weather data, Twitter visibility predictions, and correlations with DC Cherry Blossom data

Seattle Crime Hotspot Detection using Machine Learning, University of Washington
- Implemented HDBSCAN to identify and analyze Seattle crime hotspots using Python, Plotly, Tableau, OpenStreetMap API

Content Recommendation and Chatbot based on YouTube Interest, University of Washington
- Designed and developed an LLM-powered recommendation system for real-time content suggestions using Python, Streamlit, Gemini API, LangChain, TF-IDF, and BERT

Data Analytics & Visualization - YouTube Video Exposure Insights, University of Washington
- Analyzed and visualized YouTube Trending Video data to enhance exposure and clickbait using Python, NLTK, Tableau, R word clouds

Movie Ticket Booking Android/Desktop Application, Samsung Multicampus
- Developed web and mobile applications for booking movie tickets using IMDb Open API, Spring, Java, JSP, JavaScript, and Kotlin