

# Joobee Jung

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## EDUCATION

### UNIVERSITY OF WASHINGTON

M.S. in Data Science | GPA: 3.88 / 4.0

Course: ML for Big Data, Statistical ML, Applied Statistics, Deep Learning, Data Visualization, Software Design, Scalable Data Systems & Algorithms

Seattle, WA, United States

Sep. 2023 - Mar. 2025

### KOOKMIN UNIVERSITY

B.S. in Information Management | GPA: 3.86 / 4.0 | Dean's Distinguished Scholar

Seoul, Korea

## 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 - Feb. 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 - Feb. 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