

# Jungeun Hwang

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## Education

### Purdue University

Data Science & Statistics B.S. | GPA: 3.54 | Dean's Honors List

West Lafayette, IN

Aug 2021–May 2025

**Coursework:** Computer Vision with Deep Learning, Problem Solving and Object-Oriented Programming, Data Structures and Algorithms, Data Mining and Machine Learning, Introduction to Artificial Intelligence

## Experience

### JND Inc.

Plano, TX

Quality Assurance Engineer

July 2025–Present

- Maintain and debug **Python** Android automation scripts integrating **UIAutomator2** and **ADB**, improving execution reliability to 80% accuracy
- Execute **command-line** scripts to query application state, inspect functional node properties, and validate backend response consistency across Android environments

### Enlighten Care

Remote

FullStack Engineer Intern

Jan 2025–April 2025

- Maintained full-stack system components using **Python**, **JavaScript/TypeScript**, and **SQL**
- Engineered scalable data embedding and retrieval pipelines in **SQLite**, enhancing retrieval accuracy by 15%
- Developed structured **API** endpoints and integrated multi-agent automation workflows for form processing

### DIAL Ventures

West Lafayette, IN

Data Analyst Intern

Aug 2023–April 2025

- Created optimized **SQL** scripts with indexing to automate data collection and organization, reducing manual effort and improving team efficiency from 2 weeks to 2 hours
- Designed a dynamic **Tableau** dashboard to gain insights into future market demand across agrifood segments
- Implemented data processing backend application in **Python**, responsible for data ingestion and transformation

### LRNING Lab

Seoul, South Korea

Research Assistant

May 2024–Aug 2024

- Experimented with transformer models, analyzing attention mechanisms to enhance **NLP** task performance
- Optimized model architectures and hyperparameters, reducing training loss from 7.29 to 0.24
- Conducted comprehensive analysis of research on in-context learning and trustworthy AI

### Digital Agriculture Discovery Lab

West Lafayette, IN

Research Assistant

May 2023–May 2024

- Developed a customized NLP chatbot for a control system that provides precise and effective treatment instructions
- Fine-tuned a **deep learning model (BERT)** to categorize text inputs, enabling automated and effective query routing
- Built a pipeline to extract and embed data from a 500+ page PDF for semantic search, achieving an information retrieval accuracy of 75%

## Skills

**Programming Languages:** Python, JavaScript(Typescript), R, Java, C

**Framework & Libraries:** React, NumPy, Django, TensorFlow, PyTorch, Apache Spark, Next.js, Node.js,

AWS API Gateway, AWS Lambda, LangChain

**Database:** MySQL, SQLite

## Projects

### Purdue Korean Association Website

Jan 2024–Aug 2024

- Implemented a scalable full-stack Single Page Application using **React**, **Next.js**, and **Nest.js** with **TypeScript**
- Built structured **RESTful APIs** and integrated **TypeORM** with **MySQL** for relational data handling, enabling efficient query performance and content retrieval
- Leveraged **AWS** services including S3 for file storage, **Lambda** for serverless backend logic, and **API Gateway** for scalable endpoint management