

Jungeun Hwang

West Lafayette, IN 47906 | hwang227@purdue.edu | <https://github.com/jungeun202> | <https://jungh.vercel.app/>

EDUCATION

Purdue University, College of Science

West Lafayette, IN

Bachelor of Science, Data Science & Applied Statistics

May, 2025

- Classes: Problem Solving and Object-Oriented Programming, Data Structures and Algorithms, Linux Essentials, Data Mining and Machine Learning, Introduction to Artificial Intelligence, Computer Vision with Deep Learning
- GPA: 3.54/4.0

PROFESSIONAL EXPERIENCE

Stealth AI Startup

Remote

Full Stack Engineer Intern

Jan 2025 - Present

- Architect multi-agent system with context-aware dialogue management for senior health care support
- Implement end-to-end ASR pipeline with real-time voice activity detection for accurate speech segmentation and transcription

DIAL Ventures

West Lafayette, IN

Data Analyst Intern

Aug 2023 - Present

- Optimize the categorization, storage, and retrieval of industry sentiment surveys in MySQL, reducing processing time by 30%
- Design a dynamic Tableau dashboard, empowering 300+ business executives to gain insights into future market demands across diverse Agrifood segments
- Develop Python scripts for structured data processing, automation, and API integrations

LRNING Lab

Seoul, South Korea

Undergraduate Researcher

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
- Researched and documented emerging trends in LLMs, in-context learning, transformer optimization, and trustworthy AI

Digital Agriculture Discovery (DAD) Lab

West Lafayette, IN

Summer Undergraduate Research Fellowship (SURF)

May 2023 – Aug 2024

- Developed a customized NLP chatbot for a control system that provides farmers with 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%

PROJECT

Domain-Adaptive Temporal Modeling for Action Recognition

West Lafayette, IN

CS59300CVD: Computer Vision with Deep Learning

Aug 2024 – Dec 2024

- Adapted RViT for cross-modality tasks, enabling image training and video prediction for action label inference
- Improved performance with custom adjustments, including refined attention mechanisms and recurrent dropout

LEADERSHIP AND INVOLVEMENT

Purdue Korean Association (PKA)

West Lafayette, IN

Full Stack Web Developer

Jan 2024 – Aug 2024

- Designed a scalable web app for Purdue students to access career resources, with unique view counts per post
- Built a hybrid SPA using Next.js and Nest.js, with TypeScript for rendering and MySQL for data management
- Engineered relational models in TypeORM and developed RESTful APIs with structured HTTP endpoints

RELEVANT SKILLS

- Python (Pandas, TensorFlow, PyTorch, scikit-learn, Flask), R, Java, React, MySQL, Tableau, Next.js, AWS, C, Android Studio, HTML, JavaScript, Typescript, Apache Spark, Microsoft Office, Node.js, LangChain