

## Hyunwook Kim

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### PROFESSIONAL EXPERIENCE

#### Hwashin America Corporation

June 2024–Present

##### IT Specialist

- Developed and maintained web applications using C#, .NET, and ASP.NET Core MVC, as well as Windows applications with WinForms and WPF.
- Designed, configured, and managed data center network infrastructure for 100+ users, including routers, switches, VPNs, firewalls, and CCTVs.
- Monitored and reported on manufacturing data quality using Oracle Database and LabView, identifying and addressing data issues to ensure accuracy.

#### Artificial Intelligence Institute of the University of South Carolina (AIISC)

Jan. 2023–May 2024

##### Research Collaborator

##### **“Explainable Neuro-Symbolic Model for Ingredient Substitutions”**

- Organized datasets comprising over 30,000 ingredient-substitute pairs in JSON format, alongside comprehensive nutritional data, advancing food computing research.
- Developed a user-centric recommendation algorithm utilizing an ingredient-substitute knowledge graph. This implementation optimized the ingredient-substitute pair retrieval speed by 10%, enhancing both data accessibility and the efficiency of the recommendation algorithm.

##### **“Full-Stack: Student Management for Piano Studios”**

- Engineered a back-end user management system for administrators and users and utilized MongoDB for data management. **[JavaScript, Node.js, React.js]**
- Developed front-end interfaces for calendar pages to assign homework to users, which resulted in a 10% increase in re-enrollment rates and a 20% improvement in student satisfaction.

#### Republic of Korea Marine Corps, Pohang, Republic of Korea

Mar. 2011–Dec. 2012

##### Staff Sergeant

- Managed a database for a fleet of 100+ military vehicles, optimizing maintenance schedules and reducing accident risks by 10% and major breakdown incidents by 25%.
- Recognized with the Best Marine Award in 2011 for outstanding dedication and performance.

### SKILLS

C++, JavaScript, Node.js, React.js, HTML, CSS, Python, Pandas, NumPy, MySQL, MongoDB, AWS

### CERTIFICATE

#### AWS Certified Cloud Practitioner Certification

Aug. 2023

### PROJECT

#### Analyzing Motor Vehicle Collisions in NYC

Sep. 2023

- Experienced in data manipulation and built interactive web applications that enhanced user engagement by 10%. **[Python, Pandas, NumPy, and Streamlit]**

### EDUCATION

University of South Carolina (GPA: 3.94 / 4.00) MS in Computer Science

Aug. 2023–May 2024

University of South Carolina (GPA: 4.00 / 4.00) Ph.D. in English

Aug. 2019–May 2024

Chonnam National University BA and MA in English

Mar. 2014–Aug. 2019