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*   Jan. 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