

Hyunwook Kim

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PROFESSIONAL EXPERIENCE

Hwashin America Corporation

June 2024–Present

IT Coordinator

- Promoted to IT Coordinator on May 1, 2025, in recognition of leadership in IT infrastructure, network management, and cross-site project execution.
- Designed and implemented scalable, secure network solutions across three manufacturing facilities, supporting over 800 users.

IT Specialist

- Designed, configured, and secured enterprise network infrastructure for 800+ users, including routers, switches, firewalls, VPNs, and IP-based CCTV systems, ensuring high availability, performance, and compliance with security standards.
- Integrated OPC servers with industrial systems (LabVIEW, PLCs) to collect and visualize real-time operational data, enhancing visibility and enabling early detection of anomalies in OT environments.
- Gained practical exposure to SCADA and HMI systems in manufacturing settings, building a strong foundation in ICS architecture and industrial protocols such as Modbus/TCP and EtherNet/IP.
- Monitored and validated production data using Oracle Database and LabVIEW, identifying discrepancies and maintaining data accuracy for operational analysis and compliance reporting.
- Strengthened organizational cybersecurity by auditing firewall rules, managing VPN access, and implementing network segmentation to reduce attack surface and protect critical infrastructure from internal and external threats.

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.

SKILLS (Network Infrastructure | Cybersecurity | OT Security)

Networking (TCP/IP, VLAN, VPN, Firewalls), Network Security (SIEM, IDS/IPS, MITRE ATT&CK), AWS Cloud (IAM, VPC), Windows Server, Linux, Active Directory, Python, Wireshark, OPC Server, SCADA (FactoryTalk SE), PLC Programming (Studio 5000, GX Works), HMI (FactoryTalk ME), Industrial Protocols (Modbus, EtherNet/IP)

CERTIFICATE

GX Works 3 Programming – Mitsubishi University at Allied Automation, Inc.

Mar. 2025

PLC Basics GX Works 2 – Mitsubishi University at Rhodes State College

Feb. 2025

AWS Certified Cloud Practitioner Certification – Amazon Web Services

Aug. 2023

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