

# Hyunwook Kim

Greenville, Alabama | 803.365.3149

[Hwkim418@gmail.com](mailto:Hwkim418@gmail.com) | [linkedin.com/in/hyunwookkim418](https://linkedin.com/in/hyunwookkim418) | [hyunwookkim418.github.io](https://github.com/hyunwookkim418)

## 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