

Kyuhwan Lee

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EDUCATION

Purdue University

B.S - Computer Engineering Tech, Minor in CIT

West Lafayette, IN

Aug. 2020 – May 2026

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, Ruby, VHDL, Verilog, MATLAB, R

Technologies: Git, React, Node.js, Quartus II, Docker, Linux, Windows Server, Microsoft Access

EXPERIENCE

Cloud Security Engineer, Intern

ShinwooTNS

June 2022 – Aug. 2022

Seoul, South Korea

- Performed threat analysis in a 24/7 environment, gaining 99% security in data.
- Managed and created rules and policies for 5,000 end-users in the data protection area.
- Successfully secured and monitored 5 websites with 0 major attacks.
- Increased customer satisfaction ratings by 30% by mapping new software features.

Assistant Bartender

OB Bear Pub

May 2022 – June 2022

Seoul, South Korea

- Assisted in the preparation and serving of drinks and food, ensuring customer satisfaction.
- Demonstrated strong multitasking skills, efficiently handling both cleaning responsibilities and serving duties.

Undergraduate Teaching Assistant

Purdue University

Jan. 2022 – May 2022

West Lafayette, IN

- Lab assistant for Data Acquisition and Systems Control class.
- Guided 40+ students in understanding complex technical concepts.
- Managed and maintained lab equipment worth \$15K, ensuring proper functionality.

PROJECTS

Autonomous Vehicle | C++, VHDL, MATLAB

Jan. 2023 – May 2023

- Designed a Model Predictive Control system to utilize a mathematical model of the vehicle's dynamics.
- Implemented control algorithms and steering angle adjustment strategies to track vehicle's trajectory.
- Developed an application to identify impending rollover scenarios and initiate targeted brake interventions.

PER22 | C, Python, Docker, Git

Aug. 2022 – Apr. 2023

- Developed a PyQt application used to modify tracked variables and display live data on the car.
- Designed an LCD dashboard with simple UI and basic page turning.
- Supported creation of program to calculate weight transfer for finding optimal sprocket ratio.

AD LDAP Test Environment | Cato SASE Cloud, Node.js

June 2022 – Present

- Created LDAP protocol server in Node.js to configure automatic user provisioning.
- Configured custom IP, Subnet mask, Default Gateway, and DNS Server Address.
- Achieved improved user synchronization resulting in enhanced system integration and user management.
- Generated comprehensive test plans utilizing JMeter and Wireshark to validate the functionality.

Icarus | C++, Git

Aug. 2021 – May 2022

- Implemented communication interface between the altimeter and computer for real-time data exchange.
- Developed parachute deploying mechanism on predetermined altitude thresholds.