Jeon Hyeong Lee

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SKILLS

C, C++, Python, C#, JavaScript, STM32 MCU, Raspberry Pi, PyTorch, TensorFlow, .NET, Electron, Git

EXPERIENCE

WAVELIFESTYLETECH Seoul, Korea
Software Engineer Jul 2019 - Mar 2021

Robotic kitchen Jan 2020 - Mar 2021

- Raised a pre-series A investment of $3.5 million in collaboration with teammates.
- Automated 35% of kitchen tasks by developing embedded software to control sensors and motors.
- Reduced monthly labor costs from $4,000 to $3,000 by operating a robotic kitchen capable of making 120 salad bowls per hour.
- Reduced human error rate to below 2% by designing a graphical user interface for real-time monitoring.
- Achieved high-quality taste by implementing an algorithm for serving 20 types of solid or liquid ingredients (e.g., vegetables, grilled meat, sauces, etc) with an error margin of 1 gram.
- Launched a salad bowl store, ‘Dirty Bowl’, which was selected as one of the top-ranked stores on delivery apps, receiving 600 positive reviews monthly.
- **C, Python, C#, JavaScript, STM32 MCU, Raspberry Pi, .NET, React, Electron**

Double pan frying module for steak grilling Jul 2019 - Dec 2019

- Reduced grilling time by 40% from 5 minutes to 3 minutes by inventing a double pan frying module, which grills steak on both sides simultaneously without flipping.
- Attained high-quality grilled steak by optimizing an algorithm to maintain the target temperature within a 1 degree Celsius margin of error.
- Accomplished 95% operation success rate with 85% positive feedback on the taste and quality of grilled steak from 380 customers.
- **C, Python, C#, Raspberry Pi, Arduino, .NET**

PROJECT

DeepMetrics Seoul, Korea
undergraduate research program Mar 2022 - Jun 2022

PPG to heart information

- Led a project to predict heart information (e.g., heart rate, ECG signal) from PPG signal.
- Implemented an AI model using the Demucs waveform source separation model and trained it on the MIMIC-III Waveform Database.
- **Python, PyTorch, TensorBoard**

EDUCATION

Seoul National University, College of Liberal Studies Seoul, Korea
Bachelor of Science in Computer Science and Engineering & Mathematical Sciences Mar 2014 - Feb 2023

- Bachelor thesis, ‘A comparison of matrix-chain multiplication algorithms’.
- Coursework : Algorithms, System Programming, Hardware System Design, Introduction to Deep Learning

AWARDS

Korea Student Aid Foundation (KOSAF)
The Presidential Science Scholarship, Mathematics, 12th Mar 2014

- Selected as one of 120 recipients nationwide based on academic excellence and leadership potential.