Seonggon Kang

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HIGHLIGHTS

- More than 1 years of hand-on experience in python development
- Contributed to Boltzmann project GS certification approving & Responsible for the overall work of BEMS project
- Experienced in developing ui for data monitoring and front-end operations
- Development capabilities from html, css, javascript to react js
- Various fields experience including data processing, analysis and back-end development

EDUCATION

Kyung Hee University, Seoul   **2012.03 – 2018.08**

Bachelor of mathematics   CGPA: 3.60/4.50

- Learning MATLAB through numerical analysis and data analyze, preprocess through R

Korea Energy Management System Industry Association, Seoul   **2020.09 – 2020.12**

- Training of professionals in the field of energy efficiency based on IoT and Bigdata
- Programming language training and device control practices for EMS data communication

PROFESSIONAL EXPERIENCE

Autosemantics Inc.   **2020.12 – 2022.04**

Industrial artificial intelligence Solution development company   Junior Researcher

- Boltzmann Project
    - Development building energy management system solution based industrial data protocol (Modbus / BACnet) prior research
    - Creating AHU miniature prototype, for system research and software module development
    - Development crawling module correspond to unstructured environment (unknown building)
    - Development html/css/js based front-end
    - Approached GS Certification (https://url.kr/fzseqv)
        - ✓ AHU Miniature Real-time Monitoring & Control (Led, Damper, Air-Fan, Tec Module)
        - ✓ Development python flask based back-end
    - Development Data Acquisition Device
    - Deployment at SHINSEGAE Department store at Daegu and prove energy saving

- ✓ Test Site : Sokcho Daiso, Cheong-gye Icon , Guksabong middle school
- ◆ CGV AHU Scheduling Project
  - Build Uijeongbu CGV screening information crawling process
  - Development of AHU scheduler module based on Fuzzy logic and Air-conditioning guide
  - Development of real-time sensor-data monitoring & control based on socket communication
  - Development of data acquisition and socket communication back-end module

TECHNOLOGY STACK

- ◆ Software Development
  - Python, Flask, Numpy, Pandas, MySQL, MariaDB, MSSQL, Socket Communication, BACnet protocol, Modbus protocol, React js, HTML, CSS, Javascript
- ◆ Hardware/Embedded System
  - Raspberry Pi, BACnet Gateway (Johnson Controls, LG ACP, Samsung DMS) etc
- ◆ OS Tools
  - Windows, Linux, Ubuntu, Debian
  - Git, SourceTree, Notion, Slack, Trello

INTERESTED IN

- ◆ React js/jsx based Front-end
  - Data visualization, ui/ux design
- ◆ Python
  - Django based back-end development Supporting
- ◆ Back-end module development

COLLABORATOR & REFERENCE

- ◆ Hyeong-rok Heo

  Researcher | grepp

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- ◆ Wu-je Byun

  Researcher | QRAFT Technologies

  byunwj96@gmail.com
- ◆ Asif Husnain

  Researcher | TRIDGE

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