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# Profile

Backend Developer and recent graduate of Korea Polytechnic University with a B.S. in Computer Science. Has fundamental knowledge of JS Node.js, React, Docker, Java, AWS. Led development of The-Form, a web project created through the Korean Government Incubator SW Maestro. Experience in leadership roles at multiple start-ups making data-driven development decisions and fostering communication and collaborative skills.

# Work Experience

**Code States –** Blockchain Engineer **-** Seoul, South Korea February 2022.02 - Present

* Developed DID(Decentralized Identity) based automatic certificate issuance system with Typescript, Javascript, Solidity, Klaytn.

**SW Maestro –** Full stack Developer **-** Seoul, South Korea April 2021 – November 2021

SW Maestro is a Korean Government-supported program which annually selects 150 promising developers and provides funding, workspace, and mentoring to promote the fostering of young talent.

* Developed The-Form, a B2B web-based SaaS survey template geared toward start-ups, marketers, researchers to offer varied, unique ways to collect information, maintaining an average daily active user rate of 200 users. (2022:02 - DAU 8000)
* Was selected as team leader and guided an Agile team of three developers in planning and executing projects, making decisions about product cycles such as ideation, service design, development, growth hacking, and improvement
* Worked with Python Django, RDS PostgreSQL to develop a PoC for API Server, then migrated to JS Express, MongoDB to improve compatibility with frontend, in addition to operating AWS EC2, Route 53, SES, EKS for deployment to production
* Utilized various web interfaces, such as React and SCSS, to create a SPA, streamlining the process and offering a user-friendly environment for clients

**Brandazine –** Operations Lead **-** Seoul, South Korea March 2020 – November 2020

Brandazine is a fashion contents marketing company primarily focused on growing East Asian designer labels

* Improved product monitoring system by connecting Apache Superset with PostgreSQL database, along with developing Python Django based backend API server for the business platform, including both the mobile application and website
* Managed all operations within office and warehouse, including overseeing packing and sending, website traffic, and quality assurance of products
* Led operations team, consisting of five members, by assigning daily tasks, reviewing weekly reports, and ensuring timely completion of product preparation and distribution

# Skills

**Client-Side:** HTML/CSS, Javascript, React

**Server-Side:** Nodejs, Mysql, Docker, MongoDB, AWS, HTTP

**Development & Operations:** Scrum, Agile, Git, Trello

**Education**

**KOREA POLYTECHNIC UNIVERSITY** – Gyeonggi-do, South Korea March 2014 – February 2022

* B.S. in Computer Science, minor in Business Administration with 3.6/4.5 GPA
* Relevant Coursework:
* Data Structure
* Algorithms
* Computer Networks
* Software Engineering

# Projects

## **The-Form** April 2021 – November 2021

**B2B Web-based SaaS Survey Template**

Role: Full stack Developer

SW Maestro

**Link:** [**https://the-form.io**](https://the-form.io/)

* Backend API server for Survey, Response business logic using Python, Node.js
* CI/CD pipeline automation through GitHub Actions, non-discontinuous deployment when code is integrated
* Created development and production environment using AWS EC2, EKS
* Supported react-based frontend development, survey result page and preference question type
* Successfully garnered 10,000 users over a three-month period, leading to creation of a total of 2,000 surveys with 40,000 survey responses
* Survey utilized by over 30 well-known companies and government organizations, including Veoneer, Hyundai, and Woongjin.

## **Through-Path** March 2021 – June 2021

**Location-based Experience Sharing SNS Service**

Role: Backend Developer

**Link:** [**https://github.com/Lenend-KPU/LBS-Platform**](https://github.com/Lenend-KPU/LBS-Platform)

## Managed a schedule of plan, design, development full process as project lead

## Designed backend database structure and developed Python Django-based API server

## Created Jenkins based CI/CD pipelines with ‘docker out of docker’ structure

## Attached resource monitoring system on container environment through Prometheus and Grafana

## Improved location search system using Elasticsearch

## **Mask-On** January 2021 – February 2021

**Map-based Service sharing the number of people in indoor spaces and their status of wearing masks in real time**

## Role: Backend Developer

**Link:** [**https://github.com/Team-Mask-On/Mask\_On**](https://github.com/Team-Mask-On/Mask_On)

* Developed Raspberry Pi with Yolov5 to detect total number of people and classify them based on mask-wearing behavior
* Developed Python Django based API server with Gunicorn and Nginx
* Composed a docker-based container isolation environment such as web server, api server, database