

Jinsoo Heo



+ Personal info

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+ Profile

I'm a software engineer living in Seoul, South Korea.

+ Work experience

DevOps Technical Lead 12/2018 – present
LUXROBO, Seoul, South Korea

- Infrastructure management
 1. I am monitoring in-house web services using Docker, NetData. Built in-house network system fully connected with wireless communication. One physical server and another Ubuntu VM server are running on the GlusterFS filesystem.
 2. I have configured in-house web services using Docker Swarm.
- Software development management
 1. I am in charge of designing software architecture.
 2. I review and approve all software projects, including C++ projects. All code changes are merged into the code base with my approval.
 3. I have built code review system using GitLab MR, Jenkins. When the person who wrote the code opens the MR(Merge Request), Jenkins merges the source and target branches first. When the build is successful, the creator get a code review from a colleague and finally I review and approve it. JIRA issues are automatically closed when it's merged.
- Building CI/CD pipeline
 1. I automated build & deploy process of Linux, macOS, Windows, Android, iOS, Python application using Jenkins pipeline. All Jenkins pipelines were written in Groovy following the declarative pipeline script rule.

+ Work experience

2. I developed the application download server using AWS Lambda, API Gateway.
- Python command-line application development
 1. I wrote python program on which a user can program and run LUXROBO's product, MODI. The codes include C++ code for performance enhancement, it is built in the form of an extension, and linked at runtime as a dynamic library.
 - C++ application maintenance
 1. I converted existing C++ projects to CMake project. This shortened build time and binary size up to maximum 10x. I used Ninja as the build system and used Conan as the dependency package manager.

SW Dev. Team Manager 07/2017 – 12/2018
LUXROBO, Seoul, South Korea

- Software development team management
 1. I have designed Electron & C++ applications.
 2. I ran 3 Kanban projects.
- C++ application optimization
 1. I refactored and bug-fixed C++ daemon process program and deployed LTS release.

Software Engineer 04/2017 – 07/2017
LUXROBO, Seoul, South Korea

- Building software development environment
 1. I installed JIRA, Confluence on in-house server and educated members how to utilize them.
- C++ application development
 1. I wrote 'MODI Studio Daemon' C++ application with C++11, Boost. It is TCP socket client that processes commands between MODI serial port and Electron application.
 2. I updated C++ standard of the project from 98 to 11.
- iOS application development
 1. I wrote 'MODI manager' iOS application that controls MODI by BLE with Swift 3.

Freelance Android Developer 09/2016 – 03/2017
Yonsei University, Seoul, South Korea

I have developed an android mobile application that allows school students to view and share

+ Work experience

information and have about 3000 users.

+ Education

Bachelor's degree in Physics 2013 – 2019
Yonsei University, Seoul, South Korea

Hacking Defense 2010 – 2013
Korea Digital Media High School, Anyang,
Gyeonggi-do, South Korea

+ Skills

C++ C Python Agile Kanban

Java **아마존 웹 서비스(AWS)**

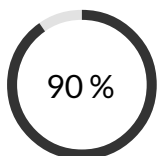
Linux 서버 Ruby on Rails Android

iOS Swift PostgreSQL MySQL

Nginx DevOps Node.js Electron

Git

+ Languages



English



Korean

+ Awards

Korea Robot Aircraft Competition 08/2016
Ministry of Trade and Industry
<http://www.koreauav.com>

I have developed unmanned aircraft flight control, communication software.

+ Projects

Naver D2 Startup Factory 11/2015

I gave a two-hour lecture on the following items.

- Altitude extraction and filtering of unmanned aircraft using pressure sensor

+ Projects

- Pressure sensor and ultrasonic sensor compensation filter
- Altitude control stabilization of unmanned aircraft

Korea Robot Aircraft Competition 06/2015

<http://www.koreauav.com/2018/>

I have developed unmanned aircraft flight control, communication software.

EBIMU-9DOFV2 01/2016

Arduino library
https://github.com/devkoriel/Arduino-EBIMU_9DOFV2-Library

A library that makes it easy to use EBIMU-9DOFV2 of E2BOX in Arduino

- Arduino library
- 1. C++

Unmanned aircraft flight control software 04/2015

<https://github.com/IntelliPilot>

Based on control engineering theory, I designed and developed flight control software for unmanned aerial vehicles.

- FreeRTOS application
- 1. Github
- 2. C
- 3. C++
- 4. Makefile
- 5. MAVLink
- 6. PID controller

Interview management system 01/2017

<https://likelion-quarantine.herokuapp.com>

Web application used for circles' new applicant interview

- Web Front-end
- 1. HTML5
- 2. CSS
- 3. Javascript
- 4. jQuery
- 5. Ajax
- 6. CoffeeScript
- 7. Semantic UI
- Web Back-end
- 1. Ruby
- 2. Ruby on Rails
- 3. Devise
- 4. PostgreSQL
- 5. Ubuntu

+ Publications

마이크로소프트웨어 394

10/2018

호 클라우드 혹은 도전
(CLOUD or DARE)

IT Chosun

ISSN: 12276227

I wrote the article, "Download server configured
with AWS API Gateway and Lambda"

+ Social Media



@devkorie