Jinsoo Heo

+ Personal info

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GitHub:	https://github.com/devkoriel

+ 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

- I am monitoring in-house web services using Docker and NetData. Also built in-house network system fully connected with wireless communication. One physical server and another Ubuntu VM server are running on the GlusterFS filesystem.
- I have configured in-house web services using Docker Swarm.

- Software Development Management

- I am in charge of designing software architecture.
- I review and approve all software projects, including C++ projects. All code changes are merged into the code base upon my approval.
- I have built a code review system using GitLab MR, Jenkins. When the person who writes the code opens the MR(Merge Request), Jenkins merges the source and the target branches first. When the build is successful, the creator gets a code review from the colleagues and I review and approve it as final. JIRA issues are automatically closed when it's merged.

- Building CI/CD Pipeline

- I automated a build & deploy process of Linux, macOS, Windows, Android, iOS, and Python applications using Jenkins pipeline. All Jenkins pipelines were written in Groovy, following the declarative pipeline script rule.
- I developed the application download server using

+ Work experience

AWS Lambda, API Gateway.

- Python Command-line Application Development

- I wrote the python program on which a user can program and run the LUXROBO's product, MODI. The codes include C++ code for performance enhancement, which is built in the form of an extension, and linked at runtime as a dynamic library.

- C++ Application Maintenance

- I converted existing C++ projects to CMake projects. This shortened the 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

- I have designed Electron and C++ applications.
- I ran 3 Kanban projects.

- C++ Application Optimization

- I refactored and bug-fixed the C++ daemon process program and deployed the LTS release.

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

- Building Software Development Environment

- I installed JIRA and Confluence on the in-house server and educated members on how to utilize them.

- C++ Application Development

- I wrote the 'MODI Studio Daemon' C++ application with C++11 and Boost. It is TCP socket client that processes the commands between MODI serial port and Electron application.
- I updated the versions of C++ standard of the project from 98 to 11.

- iOS Application Development

- I wrote the 'MODI manager' iOS application that controls MODI by BLE with Swift 3.

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

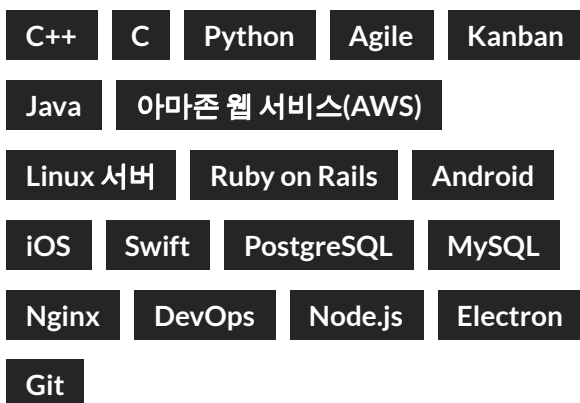I have developed an android mobile application that

Work experience

allows school students to view and share information and have about 3000 users.
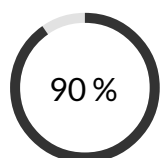
Education

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

90 % 100 %
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

Projects

aircraft using pressure sensor
- 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 Arduino library   01/2016
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

in

@devkoriel