JUNHYUNG KI

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https://github.com/junh-ki

★ English - Level C1 | German - Level B1

EDUCATION

Fachhochschule Dortmund, Germany

M.Eng in Embedded Systems for Mechatronics Oct 2018 - Apr 2021 | GPA 1,6 (German Scale)

- Relevant Modules:
 - IoT & Edge Computing
 - SW Architectures
 - o Software System Design
 - R&D Project Management
 - Requirement Engineering

Korea Polytechnic University, South Korea

B.Sc in Mechatronics Engineering

Mar 2010 - Feb 2018 | GPA 3,53 (Korean Scale)

- Language Study Abroad (Apr., 2015 May., 2016)
- Military Service (Sep, 2010 Jun, 2012)

PERSONAL PROJECT

4G Remote Control Hobby FPV Car (WIP)

Dec 2022 - Present

- Development of Internet-controlled First Point of View (FPV) 4G Hobby Car with Raspberry Pi, Spring Boot, Kafka and AWS
- ★ Project Repository https://github.com/junh-ki/smart-home-iot

TECHNICAL SKILLS

Languages

· Java, SQL, Shell, Python, Javascript

Framework

• Spring Framework / Spring Boot, Play Framework

Build Tools

· Maven, Gradle, SBT

CI/CD

Jenkins

Dev0ps

• Git, Docker, Kubernetes

Message Queue

Kafka

Caching / Databases / Monitoring

- · Redis, Elasticsearch
- PostgreSQL, AWS Redshift, MySQL
- Logstash, Grafana

Cloud Provider

AWS

PROFESSIONAL EXPERIENCE

Java Backend Developer

Holidu GmbH, Munich

Jun 2021 - Present | IT (Travel Domain)

Team: In-house Search Engine Optimization (SEO) support development team

- Development of data-intensive endpoints to hydrate user-facing SEO pages
- Development of internal tools and APIs for SEO marketing managers
- Development of asynchronous processes to keep and reindex the system of records (Elasticsearch, Redshift) to the source of truth (PostgreSQL, GoogleAds)
- Securement of Grafana dashboards for APM and team intelligence
- Development of the company core geo tool that provides geospatial services
- Microservicification of monolithic application (Play Framework -> Spring Boot)
- Communication, collaboration and knowledge sharing across different departments, stake holders, and in and out of the team
- ★ www.holidu.com

Master Thesis Student

Robert Bosch GmbH, Stuttgart

Jul 2020 - May 2021 | IT (Automotive Domain)

Topic: Cloud-based Data Evaluation for Vehicle Tamper Detection using Eclipse Kuksa

- End-to-end open-source software development of NOx emissions diagnostic methodology from the onboard device to cloud data visualization with Bosch IoT Hub.
- ★ Publication (<u>Link</u>) awarded by the <u>Eclipe SAAM Mobility 2021</u> Conference
- ★ Project Repository https://github.com/junh-ki/dias_kuksa
- ★ Tutorial Page https://dias-kuksa-doc.readthedocs.io/en/latest/

Research Assistant

Fachhochschule Dortmund, Dortmund
Mar 2019 - Mar 2020 | IT (Automotive Domain)

Model-based development for real-time analysis systems

- Developed a genetic-algorithm-based project to calculate best- and worst-case automotive task response time as well as task chain latency analysis in heterogenous systems
- ★ GSoC 2019 Code Archieve (Link)
- ★ Publication (Link)
- ★ Project Repository https://gitlab.idial.institute/junhyung.ki/gsoc_rta