

Won-Sik Kim

Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea 13588

+82-10-2787-9565

tgi01054@gmail.com

OBJECTIVE: SDE(Software Development Engineer)

SUMMARY

- SDE for millions of page view service as mail, billing, advertisement system, and SNS(Social Network System)
- Migration for large scale system that is 4.1 PB(petabyte) volume_of mail system
- Design for HA(High Availability) and fault torrent system
- Specialization in back-end system in Java, C, and C++
- Semi-DBA(Database Administrator)

EXPERIENCE

7/2015 ~ Current Developer, Kakao, Seoul, Korea

- **Kakao talk advertisement service (1/2020~Current)**
 - Implement ad service like Facebook Lead Ads with REST(Representational state transfer) , MySQL, and Redis
- **Booking system (3/2018~12/2019)**
 - Integration with 3rd party vendor with REST and Mongo DB
- **Kakao talk content channel (8/2017~2/2018)**
 - Develop CMS(Content Management System) for 6 million UV(Unique Visitor) by Play framework
- **Kakao social network system (7/2015~7/2017)**
 - Redesign feed system that sorts feeds in order of popularity like Edge Rank of Facebook.
 - Implement Album service with Mongo DB, MySQL, and Play framework

11/2014 ~ 6/2015 Developer, DaumKakao, Seoul, Korea

- **Advertisement development (11/2014~6/2015)**
 - ADX(ADvertisement eXchange)
 - Develop ADX that is compatible Open RTB(Real Time Bidding)
 - Link with external ADXs that are InMobi, Criteo, and Google.

1/2006 ~ 10/2014 Developer, Daum, Seoul, Korea

- **Billing system development (4/2012~10/2014)**
 - Billing API system
 - Develop billing REST(Representational State Transfer) for advertisement system with Spring MVC, MyBatis, and Oracle
 - Integration with PG(Payment Gateway)
 - Amount for monthly payment: 27 billion (KRW)
 - DAUM shopping mileage
 - Develop REST web services
 - Amount for monthly payment: 200 million (KRW)
 - Integration with ERP(Enterprise resource planning)

- **Mail system development (1/2006 ~ 4/2012)**
 - MTA(Mail Transfer Agency) system
 - Implement SMTP(Simple Mail Transfer Protocol) servers with Apache modules and Spring
 - Redesigned and implemented MIME(Multipurpose Internet Mail Extend) library in UTF-8 with C language
 - Customized SMTP server like a mail service of Google apps
 - Number of receiving mail per a day: 25 million
 - Number of sending mail per a day: 6 million
 - MUA(Mail User Agency) system
 - Implement SOAP(Simple Object Access protocol) APIs for reading mail
 - Implement CGI(Common Gateway Interface) for sending mail
 - Performance tuning for downloading attached files by prefetch and cache
 - Converting MIME to XML for search service
 - Customizing mail filter
 - Backup mail and user setting data
 - Daily page views: 40 million
 - Daily unique users: 3 million
 - Database Administrating
 - Migration MySQL from EUC-KR to UTF-8
 - Data volume: 48 TB
 - Number of servers: 200 servers
 - Recovery MySQL
 - Tuning SQL query
 - System migration
 - Migration from old machine EUC-KR to new machine UTF-8
 - Data volume: 4.1 PB
 - Number of servers: 800 servers

EDUCATION

3/2003~8/2005 Kyungpook National University, Daegu, Korea
MS, Computer Engineering (GPA 4.1/4.3)

- Specialist in database

3/1999~2/2003 Keimyung University, Daegu, Korea
BS, Computer Engineering (GPA 4.0/4.5)

TECHNICAL SKILLS

- Language: Java, C, C++, C#, Perl, Python, SQL
- Internet Technology Experience: Spring MVC, Play, Struts, Tomcat, Apache, CGI, Velocity
- OS: Linux, Window
- DB: MySQL, MongoDB, Oracle, DB2
- Editor: IntelliJ, Eclipse, Vi, Visual Studio
- Protocol: MIME(Multipurpose Internet Mail Extend), SMTP(Simple Mail Transfer Protocol)