# Hojun Lim

**Software engineer** with expertise in systems infrastructure, specializing in developing prototypes for new features as well as designing and optimizing scalable systems. Successfully delivered data integration and management projects to a wide range of clients, including advertising platforms, ensuring reliable and scalable backend solutions.

## Experience

### Backend Developer - AB180 Inc. / Full-Time

Seoul, South Korea | Sep 2020 - Jun 2023

**Advertising Network Integration System Design and Development**
- Integrated advertising performance reports from multiple platforms, including Meta, Google, and TikTok, into the product reporting system.
- 3 years of experience operating production servers using Serverless framework and Docker.
- Reduced the average development time for integrations from 20 days to 2 days through system abstraction.

**API Design Revamp and Documentation**
- Established structured design and processes for external APIs and Introduced and managed a versioning system.

**API Build System Optimization**
- Reduced production testing and E2E processing time by 90% using asynchronous operations.

### Data Engineer - Metric Studio Inc. / Full-Time

Seoul, South Korea | Jun 2020 - Sep 2020

**Purchase Prediction Model Pipelining**
- Developed and delivered a model to analyze user purchasing behavior based on in-app activities.
- Preprocessed large-scale data(10M event per day) and performed feature engineering using Apache Spark on AWS EMR.
- Built a deep learning binary classification model using AWS SageMaker with MongoDB.

### Fullstack Developer - WikiWiki / Full-Time Internship

Incheon, South Korea | Dec 2019 - Feb 2020

**Smart Kalimba (Instrument Simulation & Tuning App)**
- Developed and deployed an early-stage Android application.
- Achieved 1 million downloads.

## Projects

### Scaling Program Analysis

Irvine, CA | Jul 2024 - Sep 2024 | UC Irvine
- Focused on improving the scalability of static code analysis of LLVM by optimizing the IFDS algorithm's memory usage at the kernel level. I identified limits conventional caching strategies and demonstrated the effective alternative policies, enabling more efficient compiling.

### Rootin - Keep your plant perfectly hydrated

Irvine, CA | Aug 2024 - Dec 2024 | Kookmin University
- Designed scalable data pipelines leveraging AWS Lambda, a database for storing plant data from IoT sensors, and implemented a data delivery pipeline, as part of the team project for real-time plant watering management service that combines hardware sensors and the mobile app.

## Contact

INFO hojunlim.dev@gmail.com
(949) 307-0252
linkedin.com/in/hojunlim
github.com/devkaspee

LOCATION Irvine, CA

## Education

**Bachelor of Science, Computer Science**
**Kookmin University**
Seoul, South Korea
Mar 2018 - (Expected) Feb 2025

**Global Research Experience, Computer Sciences**
Research on Memory Optimization at the Kernel and FPGA
**University of California, Irvine**
Jul 2024 - Sep 2024

## Skills

**Programming Languages / Frameworks**
Python, FastAPI, Flask, Java, Kotlin, Spring, Pandas, TensorFlow, Linux, HTML, MySQL, PostgreSQL, MongoDB, Redis, Serverless, Docker, C++, LLVM, Apache Druid, Shell Script, Android

**Development / Service Tools**
AWS (Lambda, ECS, RDS, DynamoDB, SageMaker), Github (Actions), LLM Prompting Engineering

**Languages**
English, Korean

## Awards

**Disaster Safety Data Hackathon**
Ministry of the Interior and Safety
South Korea, Jun 2023
**2nd Prize**

**Digital Competition of National Center of Excellence in Software**
Ministry of Science and ICT
South Korea, Aug 2024
**3rd Prize**