

# Juho Bai

Deep Learning Scientist

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## PERSONAL PROFILE

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I am a creative and enthusiastic Deep learning scientist with over ten years of experience in the IT field. I have experience designing and carrying out computing experiments, data analysis, researching related works, and writing technical proposals. I possess excellent analytical and communications skills and a dedicated approach to working in a highly expertized environment. I am currently looking for a challenging opportunity within the new domain.

## EDUCATION

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<b>Ph.D in Computer Science and Engineering, Sogang Univ</b>	<i>Aug 2021</i>
<b>MS in Computer Science and Engineering, Sogang Univ</b>	<i>Aug 2011</i>
<b>BS in Computer Science and Engineering, Sogang Univ</b>	<i>Aug 2009</i>

## PUBLICATIONS

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- Juho Bai. Deep learning methods using expert domain knowledge for similar search of patent documents. *Sogang Univ*, 2021 (phd thesis)
- Juho Bai, Inwook Shim, and Seog Park. Pai-net:similar patent search network using prior art information. *IEEE Access*, 2021 (SCIE), under review
- Juho Bai, Inwook Shim, and Seog Park. Mexn: Multi-stage extraction network for patent document classification. *Applied Sciences*, 10(18):6229, 2020 (SCIE)
- Juho Bai and Seog Park. Lexai : Legal document similarity analysis service using explainable ai. *Journal of KIISE*, 47(11):1061–1070, 2020 (KCI)
- Juho Bai and Yeji Kim. Environmental forecasting service server and method using location and surrounding environmental information, Korea Patent 10-2020-0021800, Feb. 2021 (Patent)
- Juho Bai, Sehwa Park, and Seog Park. The method of semantic information indexing for spatio-temporal database searching system, Korea Patent 10-2016-0009215, Jan. 2016 (Patent)

## SKILLS

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- C, C++, C#, Python, pyTorch, Tensorflow
- MSSQL , MariaDB , Oracle ,Embedded Control Systems, IOT sensor data processing

## PROJECTS

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**A Development of Deid based on Differential privacy** *Mar 2019 – Dec 2019*

- 차분 프라이버시 기반 비식별화 기술 개발// 정보통신기획평가원//Research assistant

**Design and implementation system of spatio-temporal archive** *Dec 2014 – Nov 2015*

- 시공간 아카이브의 설계 및 시스템 구현// 사단법인 한국산학연합회//Research assistant

**Access control for web app version management** *Jul 2014 – Jun 2015*

- 다중 웹 앱 버전 관리를 위한 보안 접근제어// 서강대학교//Research assistant

**Design and build Sensing Data as a Secure, Reliable Service** *Jun 2014 – Mar 2014*

- 안전하고 신뢰할 수 있는 서비스로서의 센싱데이터 설계 및 구축// (재) 한국연구재단//Research assistant

**Training Team for CFTR for the Utilization of Big Data** *Sep 2013 – Feb 2014*

- 빅데이터 활용을 위한 창의적 기반기술 연구인력 양성팀// (재) 한국연구재단//Research assistant

**Design and implementation of web tools using Lego modeling** *Jan 2013 – Jun 2013*

- 레고 모델링 기법을 이용한 웹 앱 개발툴의 설계 및 구현// 엘지전자(주)//Research assistant

**EBPP system for an integrated smartphone environment** *Oct 2012 – Sep 2013*

- 스마트폰 통합 결제 시스템 구축을 위한 전자고지결제// 한국산업기술평가관리원//Research assistant

**Requirements and Quality Validation TD for Convergence SW** *Jul 2012 – Dec 2012*

- 융합 소프트웨어를 위한 요구 및 품질검증 서비스 개발// 정보통신산업진흥원//Research assistant

**Seoul Accord** *Jul 2011 – Feb 2012*

- 서울 어코드 활성화 사업// 서강대학교//Research assistant

**Training for a Healthcare system based on Pervasive computing** *Mar 2008 – Feb 2013*

- Pervasive 컴퓨팅 기반의 의료 시스템을 위한 핵심 S/W인력 양성 사업팀// (재) 한국연구재단//RA

## WORK EXPERIENCE

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**Galactic Entertainment inc.**

**Seoul, Korea**

*Co-founder, CTO*

*Aug 2018 - Present*

- Design deep learning-based translation memory system

**Y&J Partners**

**Seoul, Korea**

*Chief Technology Officer*

*Aug 2019 - Aug 2020*

- Design environmental data prediction using geo-spatial dataset and deep learning R&D for legal tech

**Inha Technical College**

**Incheon, Korea**

*Adjunct Faculty*

*Mar 2013 - Dec 2013*

- Lecture database schema design and implementation(spring), data structures and algorithms(autumn)