

EXPERIENCE

- **Senior Software Engineer, Backend Team Lead** Seoul, Korea
CLASSUM Co *Nov 2025 - Present*
- **Senior Software Engineer, Backend Team** Seoul, Korea
CLASSUM Co *May 2022 - Nov 2025*
 - **AI Engineering**
 - **Education Domain Embedding Model:** Fine-tuned a domain-specific Korean STS model using PEFT, significantly boosting semantic search accuracy.
 - **Advanced RAG System:** Designed an Advanced RAG-based QA system, delivering high-accuracy automated responses.
 - **Agentic AI Chatbot:** Developed a comprehensive Agentic AI providing both Q&A and personalized recommendations based on user intent.
 - **Search Optimization:** Engineered LLM-based retrieval filtering and automated complex data mapping pipelines.
 - **Backend Engineering**
 - **Scalable Asynchronous Architecture:** Architected scalable asynchronous pipelines using Celery and AWS ECS for high-load processing.
 - **Advanced Features:** Implemented optimized pipelines for STT, OCR, and DRM to ensure service stability and format compatibility.
- **Software Engineer, SW Development Team Leader** Seoul, Korea
VUNO Inc *Mar 2021 - Apr 2022*
- **Software Engineer, SW Optimization Part Leader** Seoul, Korea
VUNO Inc *Mar 2020 - Feb 2021*
 - **SW Performance Optimization:** Optimizing Web Application using Spatial Indexing (e.g. R-Tree) [Blog]
 - **3rd Party Libraries:** rotatedEllipticalRoiTool, cornerstoneBase64ImageLoader, cornerstoneSideImageLoader
- **Software Engineer** Seoul, Korea
VUNO Inc *Jan 2017 - Feb 2020*
 - **Bone Age, CBCR System, Fundus AI, Chest PA, Pathology, Lung CT AI:** Developing Web, Api Services deploying python-based DL framework AI Models using react, flask, docker, graphql, websocket, celery
 - **Medical Transcription, Online Decoding:** Developing Web, Api Services deploying Vuno-Net (Deep learning framework based C++, CUDA) AI Models using python flask, WebAudio API
 - **Labeling Tools:** Developing Web, Api Services creating labeled data on medical 2d, 3d image using cornerstoneTools that provides a set of common tools needed in medical image
 - **CornerstoneTools Contributor:** Developing core functions including filling the region of segmentation brush
- **Adjunct Professor of Art & Technology** Seoul, Korea
Sogang University *Mar 2019 - Jul 2019*
- **Freelancer** Seoul, Korea
Web, iOS Application Developer *Aug 2013 - Jan 2017*

EDUCATION

- **Sogang University** Seoul, Korea
Master of Computer Science, Data Engineering *Mar 2015 - Feb 2017*
- **Sogang University** Seoul, Korea
Bachelor of Computer Science *Mar 2011 - Feb 2015*

AWARDS AND HONORS

- **Kaggle Competitions Expert:** Silver (2025-MAP), Bronze (2025-Jigsaw)
- **1st place (Grand award), 2014 Sogang Capstone Design:** CCTV Project
- **12th place (Bronze award), 2014 The ACM-ICPC Asia regional contest Daejeon site :** Team - Kim N Kang
- **12th place, 2013 The ACM-ICPC Asia regional contest Daejeon site:** Team - I Might Be Accepted
- **3rd place (Silver award), 2013 Sogang Programming Challenge Contests:** Solo
- **18th place, 2012 The ACM-ICPC Asia regional contest Daejeon site:** Team - exclamation_point
- **5th Place (Bronze award), 2011 Sogang Programming Challenge Contests:** Solo

EXTRA CURRICULAR ACTIVITIES

- **Serverless Deep Learning-based Web Application** *Oct 2021 - Present*
- **Problem Solving Blog** *Dec 2013 - Present*
- **Langrisser Information Web Service** *Dec 2019 - Present*
- **5th Software Maestro** *Jul 2014 - Nov 2014*
- **World Friends IT Volunteers (Uzbekistan)** *Jul 2014 - Aug 2014*
- **10th Nexon Global Internship** *Jan 2014 - Feb 2014*
- **President, Sogang ACM-ICPC Team (a problem-solving club)** *May 2012 - Dec 2013*

SKILLS

- **Languages:** C/C++11, Python, Javascript, Typescript, Swift **Miscellaneous:** Vim, Aws, Git
- **Frameworks:** React, React-Native, GraphQL, Flask, Sanic, Celery, Docker

PRESENTATION

- **FEConf 2021 [Slides][Video]**
Serverless Deep Learning Service with tensorflow.js *30 Oct 2021*
- **SW Educational Festival 2020 [Video]**
AI X Medical Software Development Story *19 Nov 2020*
- **SW Technical Seminar 2020 [Video]**
Medical AI Web Application and Optimization *23 Jul 2020*
- **W3C HTML5 Conference 2018, 2017 [Slides]**
Medical AI Web Application *26 Nov 2018, 06 Dec 2017*
- **Devview 2017 [Slides] [Video]**
Creating Tool for High-quality Data that has never happened in the History of AI in Medicine *17 Oct 2017*