

## EXPERIENCE

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- **Head of Engineering** Seoul, Korea  
*CLASSUM Co* *Apr 2026 - Present*
- **Senior Software Engineer, Backend Team Lead** Seoul, Korea  
*CLASSUM Co* *Nov 2025 - Mar 2026*
- **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.
- **Mentor** Seoul, Korea  
*Software Maestro* *Apr 2026 - Present*
- **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** *Mar 2019 - Jul 2019*  
*Sogang University*
- **Freelancer** *Aug 2013 - Jan 2017*  
*Web, iOS Application Developer*

## EDUCATION

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- **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

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

## EXTRA CURRICULAR ACTIVITIES

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

## SKILLS

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

## PRESENTATION

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- **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*
- **Deview 2017 [Slides] [Video]**  
*Creating Tool for High-quality Data that has never happened in the History of AI in Medicine* *17 Oct 2017*