

# JA EJUN SHIM

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## TECHNICAL STRENGTHS

<b>Interests</b>	Artificial Intelligence(Multimodality, Quantization, Continual Learning), Big-Data
<b>Computer Languages</b>	Python, C#
<b>Frameworks &amp; APIs</b>	Spark, Pandas, TensorFlow(Keras), PyTorch, HuggingFace
<b>Systems</b>	Windows, Linux, Google Cloud Platform

## EDUCATIONS

<b>Anyang University</b>	Mar 2018 - Feb 2021
<i>B.S. in Computer Science and Engineering</i>	<i>Overall GPA: 3.36/4.5</i>

- **THESIS:** "Topic-based Timeline News Summarization System"
- **RELEVANT COURSEWORK:** Mathematics, Linux Programming, Database Programming, Python based File Processing, Artificial Intelligence

<b>Ansan University</b>	Mar 2016 - Feb 2018
<i>A.A. in Global IT Business</i>	<i>Overall GPA: 3.2/4.5</i>

- **RELEVANT COURSEWORK:** Database Modeling, Object Oriented Programming, System Analysis and Design, Management Information System, Advanced Mobile Programming

## PROFESSIONAL EXPERIENCES

<b>Google</b>	Jun 2023 - Jun 2024
<i>Associate Customer Engineer, Data Analytics Specialist, Google Cloud</i>	<i>Seoul, Republic of Korea</i>

- Developed and presented Cloud Analytics architectures to internal and external stakeholders.
- Engineered big data processing pipelines and deployed Analytics or AI solutions on a cloud platform to address complex technical challenges.
- Implemented automated summarization of internal resources using Large Language Models within a cloud infrastructure.
- **SKILLS:** Python, Spark, Shell Script, Terraform, Google Cloud Platform, Analytics, Artificial Intelligence

<b>Korea IT Business Promotion Association</b>	May - Dec 2022
<i>Senior Researcher, SW Business Department</i>	<i>Seoul, Republic of Korea</i>

- Delivered AI development educational curricula within the Metropolitan ICT Innovation Square business.
- Conceptualized and designed government-funded educational programs in collaboration with the Ministry of Science and ICT.
- Participated in the design and implementation of a learning record and information management system for statistical purposes.
- **SKILLS:** Python, TensorFlow, Pandas, Machine Learning, Analytics, Project Management, Data Pipeline Automation, Technical Education Business, Government Business

<b>Start-up Company</b>	Sep 2021 - Apr 2022
<i>Founding Member</i>	<i>Seoul, Republic of Korea</i>

- Led and oversaw the web & mobile application software development lifecycle of the platform service.
- Recipient of the Best Company Award in the Initial Startup Package program, granted by the Korea Institute of Startup & Entrepreneurship Development, under the Ministry of SMEs and Startups.
- **SKILLS:** Python, Flutter, RDBMS, Application Software, Project Management, Platform Business

## RESEACH EXPERIENCES & PROJECTS

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### **Seoul National University**

*Undergraduate Research Intern, Medinfo Laboratory*

Dec 2022 - Feb 2023

*Seoul, Republic of Korea*

- SUBJECT: "Dataset Is All You Need - MedNLI"
- Investigated the relationship between Transformer model architecture, pre-training data composition, and task or domain specialization on Natural Language Inference performance in the biomedical domain.
- Trained pre-trained BERT and derivative models on the MedNLI dataset derived from MIMIC-III clinical notes.
- SKILLS: Python, TensorFlow, Deep Learning, Natural Language Processing, Biomedical Informatics

### **Anyang University**

*Project, Bachelor Thesis*

Sep - Dec 2020

*Gyeonggi, Republic of Korea*

- SUBJECT: "Topic-based Timeline News Summarization System"
- Constructed a Python-based search engine utilization data scraper optimized for resource efficiency through multi-processing.
- Developed a text summarization pipeline utilizing a pre-trained BERT model, processed linguistic data using Python and PyTorch, and integrated a NoSQL document store for efficient data management.
- SKILLS: Python, NoSQL, File System, Natural Language Processing, Model Serving

### **Korea University**

*Project, Big-data Youth Talent Course*

Jun - Sep 2019

*Seoul, Republic of Korea*

- SUBJECT: "Deep-Cycle" — Image Segmentation System
- Constructed a Python-based data scraper to extract relevant information from search engines.
- Developed an object segmentation pipeline utilizing a Mask R-CNN architecture, processing and augmenting visual data with Python, OpenCV, and TensorFlow.
- Created a web application employing Flask and SQLite to deliver model-based functionalities.
- SKILLS: Python, TensorFlow, OpenCV, Flask, RDBMS, Vision Processing, Model Serving

### **Anyang University**

*Undergraduate Researcher, Embedded System Laboratory*

Mar - Jul 2018

*Gyeonggi, Republic of Korea*

- Developed embedded systems utilizing ATmega128 microprocessors and C programming.
- SKILLS: C, AVR, Micro-processor

## LEADERSHIPS & ACTIVITIES

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### **Korea University, Korea Data Agency**

*Teaching Assistance, Big-data Youth Campus Program*

Jun - Sep 2021

*Seoul, Republic of Korea*

- Provided mentorship and academic support to students engaged in big data-driven intelligent service development projects.

### **ICT Innovation Square, National IT industry Promotion Agency**

*Teaching Assistance, AI Computer Vision Development Intermediate/Advanced Courses*

Apr - Aug 2021

*Seoul, Republic of Korea*

- Provided academic guidance and mentorship to students through the construction of neural network models utilizing computer vision datasets.
- Developed and disseminated course lecture notes while serving as a mentor to students.