

SANGJUN SON

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WORK & RESEARCH INTERESTS

I am specialized in **Machine learning**, **Data mining**, **Computer vision** and **Tensor analysis**.
I am also interested in **Blockchain**, **Business planning** and **Web development**.

EDUCATION

Seoul National University, *Seoul, Republic of Korea* Mar. 2016 - Aug. 2022
B.S. in Computer Science and Engineering
Interdisciplinary Major in Entrepreneurship

Daegu Science High School, *Daegu, Republic of Korea* Mar. 2013 - Feb. 2016

PUBLICATIONS

Sangjun Son*, Yongchan Park*, Minyong Cho, and U Kang,
“**DAO-CP: Data-adaptive online CP decomposition**,” *PLOS ONE* 2022,
(* Both authors contributed equally to this work)

Dawon Ahn, **Sangjun Son**, and U Kang,
“**Gtensor: Fast and Accurate Tensor Analysis System using GPUs**,” *CIKM 2020*,
29th ACM International Conference on Information and Knowledge Management, Virtual Event, Ireland

WORKING EXPERIENCES

Engineer Intern, *NFTBank, Backend Team* Dec. 2021 - Feb. 2022
Deployed a Scholar Resume web-page for scholarship application
Developed an Automated Payout service for scholarship managers

Google Software Engineering Intern, *Google Korea LLC., Desktop Search Team* Jun. 2021 - Sep. 2021
Automatic I2F and Nesting config generation for hOSRP to diOSRP conversion
Designed an internal tool for efficient development in OSRP migration

RESEARCH EXPERIENCES

Data Mining Laboratory, *Seoul National University* Nov. 2019 - Feb. 2021
Research Internship (Advisor: Prof. U Kang)

- **Gtensor**, **BIGtensor**: Accelerated large-scale tensor analysis on heterogeneous system
- **DAO-CP**: Enhanced accuracy for CP decomposition of time-evolving tensors by a data-adaptive algorithm

Real-Time Ubiquitous Systems Laboratory, *Seoul National University* Jul. 2017 - Feb. 2018
Research Internship (Advisor: Prof. Chang-Gun Lee)

- Implemented simulation to study effects of AED delivery using unmanned vehicle transport technology on defibrillation in out-of-hospital cardiac arrest

TEACHING EXPERIENCES

Logic Design & Web Development, *31th Peer Tutoring Program in College of Engineering* Spring. 2022

International Students Integrated Peer Tutoring Program, *Undergraduate Student Tutor* Spring. 2021
Data Structures & Algorithm Fundamentals, SNU Gwanak Residence Halls

Digital Computer Concept and Practice, *Lab Class Lecturer* Fall. 2020
Introduction to Python and Its Application, Dept. of Computer Science and Engineering

Basic Computing: First Adventures in Computing , <i>Teaching Assistant</i> Python Basics, SNU Faculty of Liberal Education	Fall. 2020
Basic Calculus 1 , <i>Undergraduate Student Tutor</i> TA Office of the Department of Mathematical Sciences	Spring. 2020

SOFTWARE

Scholar Resume , <i>SPA for Axie Infinity Scholarship Application</i> Resume page depicting scholars' game career, including ranks, MMR, and earned SLP history	Jan. 2022 - Feb. 2022
BIGtensor , <i>Contributor of BIGtensor-GPU and Hadoop</i> Tensor mining packages for large-scale tensor analysis	Nov. 2019 - Feb. 2021
Drone Transfer Simulator Simulation of AED drone delivery to defibrillation for patients with out-of-hospital cardiac arrest	Jul. 2017 - Feb. 2018

COURSE PROJECTS

MopReM: Moiré Pattern Removal for Mobile , <i>Texts/Diagrams on Single-colored Background</i> Established a efficient module for mobile cameras specialized in demoireing re-captured screen materials.	Fall. 2021
Deep Learning-based Wrinkle Detection , <i>Morpheus3D</i> Built new models to segment wrinkle parts in 3D scanned face images by exploiting state-of-the-art methods	Fall. 2020
ABC , <i>Art with Block-Chain: Media-art Platform</i> Designed a platform where any creator can upload their own media arts and increase profits Implemented smart contract on ERC-721 token, which records its metadata and p5.js-based content on blockchain	Spring. 2020
BusyWrite , <i>Team Writing Solution to Accelerate Collaboration</i> Implemented a concept of a unit of thought that users write on, called <i>Bubble</i> , and enabled users to write simultaneously and merge after resolving conflicts	Fall. 2017

SKILLS

Programming Languages	C++, Python, Java, MATLAB, Scala, R (Welcome to any languages)
Frameworks & Tools	PyTorch, Tensorflow, React, AngularJS, Django, NestJS OpenCL, OpenGL, Hadoop, MFC, Google Functions, Pubsub, Airflow

HONORS and AWARDS

ACM ICPC Regional Contest Seoul , <i>ACM ICPC Gogle Team</i> , 15th place	Nov. 2021
Merit-based Scholarship (full amount) , <i>Seoul National University</i>	Fall. 2020 - Spring. 2021
SNU Development Fund Scholarship , <i>Seoul National University</i>	Spring. 2017 - Fall. 2017
Korea Olympiad in Informatics , <i>National Programming Contest for High School Students</i> Silver medal, 3rd place	May. 2015

EXTRA-CURRICULAR ACTIVITIES

WD Partners , <i>Consulting Firm providing Indoor Ventilation Solution</i> Demonstrate optimal condition for high ventilation efficiency through CFD analysis for pollutants (e.g., fine dust and droplets containing viruses) Built a prototype device using Coanda effect for real-world validation	Jun. 2021 - Dec. 2021
Problem Solving in SNU , <i>Study Group for Coding Interview</i> Managed weekly practices and workshops to share and learn skills and strategies	Jun. 2021 - Sep. 2021
Decipher , <i>Blockchain Research Group in Seoul National University</i> Attended weekly seminars about various blockchain topics as a member of StuDeFi Designed a donation platform, AID-U for contributing student education expenses	Mar. 2020 - Aug. 2020

Paik's Beer Served beer and snacks as a part-time job after school	Dec. 2019 - Mar. 2020
Republic of Korea Army, <i>Obligatory Military Service</i> Discharged on full-term military service Occupational specialty: administration, communication equipment operation, chaplaincy	Feb. 2018 - Oct. 2019
KASTTC, <i>KwanAkSa Table Tennis Club</i> Managed competitions and weekly training as a club's supervisor	Dec. 2016 - Dec. 2017