

# SANGJUN SON

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## RESEARCH INTERESTS

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My research focuses on **Machine learning**, **Data mining**, **Computer vision**, and **Tensor analysis**.  
I am also interested in **Blockchain** and **Business planning**.

## EDUCATION

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<b>Seoul National University</b> , <i>Seoul, Republic of Korea</i> Candidate for B.S. in Computer Science and Engineering Interdisciplinary Major in Entrepreneurship	Mar. 2016 - Present
<b>Daegu Science High School</b> , <i>Daegu, Republic of Korea</i>	Mar. 2013 - Feb. 2016

## WORKING EXPERIENCES

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

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

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

## RESEARCH EXPERIENCES

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<b>Data Mining Laboratory</b> , <i>Seoul National University</i> Research Internship (Advisor: Prof. U Kang) <ul style="list-style-type: none"><li>◦ <b>Gtensor</b>, <b>BIGtensor</b>: Accelerated large-scale tensor analysis on heterogenous system</li><li>◦ <b>DAO-CP</b>: Enhanced accuracy for CP decomposition of time-evolving tensors by a data-adaptive algorithm</li></ul>	Nov. 2019 - Feb. 2021
<b>Real-Time Ubiquitous Systems Laboratory</b> , <i>Seoul National University</i> Research Internship (Advisor: Prof. Chang-Gun Lee) <ul style="list-style-type: none"><li>◦ Implemented simulation to study effects of AED delivery using unmanned vehicle transport technology on defibrillation in out-of-hospital cardiac arrest</li></ul>	Jul. 2017 - Feb. 2018

## TEACHING EXPERIENCES

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<b>International Students Integrated Peer Tutoring Program</b> , <i>Undergraduate Student Tutor</i> Data Structures & Algorithm Fundamentals, SNU Gwanak Residence Halls	Spring. 2021
<b>Digital Computer Concept and Practice</b> , <i>Lab Class Lecturer</i> Introduction to Python and Its Application, Dept. of Computer Science and Engineering	Fall. 2020
<b>Basic Computing: First Adventures in Computing</b> , <i>Teaching Assistant</i> Python Basics, SNU Faculty of Liberal Education	Fall. 2020
<b>Basic Calculus 1</b> , <i>Undergraduate Student Tutor</i> TA Office of the Department of Mathematical Sciences	Spring. 2020

## SOFTWARE

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- BIGtensor**, *Contributor of BIGtensor-GPU and Hadoop* Nov. 2019 - Feb. 2021  
Tensor mining packages for large-scale tensor analysis
- Drone Transfer Simulator** Jul. 2017 - Feb. 2018  
Simulation of AED drone delivery to defibrillation for patients with out-of-hospital cardiac arrest

## COURSE PROJECTS

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- MopReM: Moiré Pattern Removal for Mobile**, *Texts/Diagrams on Single-colored Background* Fall. 2021  
Established a efficient module for mobile cameras specialized in demoiring re-captured screen materials.
- Deep Learning-based Wrinkle Detection**, *Morpheus3D* Fall. 2020  
Built new models to segment wrinkle parts in 3D scanned face images by exploiting state-of-the-art methods
- ABC**, *Art with Block-Chain: Media-art Platform* Spring. 2020  
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
- BusyWrite**, *Team Writing Solution to Accelerate Collaboration* Fall. 2017  
Implemented a concept of a unit of thought that users write on, called *Bubble*, and enabled users to write simultaneously and merge after resolving conflicts

## SKILLS

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- Programming Languages** C++, Python, Java, MATLAB, Scala, Solidity, R (Welcome to any languages)
- Frameworks** PyTorch, Tensorflow, React, AngularJS, Django  
OpenCL, OpenGL, Hadoop, MFC

## HONORS and AWARDS

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

## EXTRA-CURRICULAR ACTIVITIES

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- WD Partners**, *Consulting Firm providing Indoor Ventilation Solution* Jun. 2021 - Dec. 2021  
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
- Problem Solving in SNU**, *Study Group for Coding Interview* Jun. 2021 - Sep. 2021  
Managed weekly practices and workshops to share and learn skills and strategies
- Decipher**, *Blockchain Research Group in Seoul National University* Mar. 2020 - Aug. 2020  
Attended weekly seminars about various blockchain topics as a member of StuDeFi  
Designed a donation platform, AID-U for contributing student education expenses
- Paik's Beer** Dec. 2019 - Mar. 2020  
Served beer and snacks as a part-time job after school
- Republic of Korea Army**, *Obligatory Military Service* Feb. 2018 - Oct. 2019  
Discharged on full-term military service  
Occupational specialty: administration, communication equipment operation, chaplaincy
- KASTTC**, *KwanAkSa Table Tennis Club* Dec. 2016 - Dec. 2017  
Managed competitions and weekly training as a club's supervisor