

SANGJUN SON

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RESEARCH INTERESTS

Tensor Analysis, Machine Learning, Data Mining,

EDUCATION

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

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

PUBLICATIONS

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

RESEARCH EXPERIENCES

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

- **Gtensor**, **BIGtensor**: Accelerated large-scale tensor analysis on heterogenous 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)

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

TEACHING EXPERIENCES

International Students Integrated Peer Tutoring Program, Undergraduate student tutor Spring. 2021
Data Structures & Algorithm Basic Concepts, 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, Teaching assistant Fall. 2020
Python Basics, SNU Faculty of Liberal Education

Basic Calculus 1, Undergraduate student tutor Spring. 2020

SOFTWARE

BIGtensor, Contributor of *BIGtensor-GPU* and *BIGtensor-Hadoop* 2019 - 2021
Tensor mining packages for large-scale tensor analysis

Drone Transfer Simulator 2017 - 2018
Simulation of AED drone delivery to defibrillation for patients with OHCA

COURSE PROJECTS

- Deep learning-based wrinkle detection**, Morpheus3D Fall. 2020
Built new models to segment wrinkle parts in 3D scanned face images by exploiting state-of-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

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

HONORS and AWARDS

- Merit-based Scholarship (full amount)**, Seoul National University Fall. 2020 - Spring. 2021
- SNU Development Fund Scholarship**, Seoul National University 2017
- Korea Olympiad in Informatics**, *National programming contest for high school students* 2015
Won a silver medal (3rd place)

EXTRA-CURRICULAR ACTIVITIES

- 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
- Republic of Korea Army**, *Obligatory Military Service* Feb. 2018 - Oct. 2019
Discharged on full-term military service
- KASTTC**, *Table Tennis Club* Dec. 2016 - Dec. 2017
Conducted lessons to improve the skills of members, managed participating competitions, and supervised weekly training as a club's trainer.