

# Soo Kim – Résumé

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<b>Date of Birth</b>	25 <sup>th</sup> September 1991	<b>Email</b>	carlsagan96@gmail.com
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		<b>Github</b>	carlsagan21

## Personal Profile

Interested in program analysis, distributed computing, clustering, and the-state-of-art techniques in web development from front-end to architecture.

## Research Experience

Jul 2017 - Present	<b>Programming Research Laboratory, Seoul National University</b> <i>Research Assistant</i> Automated program corrector using machine learning. Technologies: Tensorflow, seq2seq
Mar 2015 - Aug 2016	<b>Jang's Lab for Human Nature Studies and Philosophy of Biology, Seoul National University</b> <i>Research Assistant</i> Researched Cultural Evolution, Morality and Sociality at Transdisciplinary Research Center for Culture-Brain Dynamics

## Work Experience

Dec 2015 - Aug 2016	<b>Ab180, Seoul, Republic of Korea</b> <i>Front-end Developer</i> Airbridge (Mobile app marketing performance analytics) <a href="https://airbridge.io/">https://airbridge.io/</a> Developed front-end web alone using React. Attracted the 600M won(540,000\$) investment from TIPS. <a href="http://www.jointips.or.kr/">http://www.jointips.or.kr/</a> Technologies: React, Redux, Webpack, D3, ESLint, Flow, Enzyme, Amazon S3, Jenkins, Flask, Amazon E2. / As a team, Scrum, JIRA, Confluence, Trello
Sep 2011 - Jun 2013	<b>Republic of Korea Army</b> <i>Sergeant</i>

## Education

Mar 2011 - Present	<b>Seoul National University, Seoul, Republic of Korea</b> <i>College of Liberal Studies</i> <i>Candidate for Bachelor's Degree in Computer Science Engineering</i> <i>Candidate for Bachelor's Degree in Cognitive Studies of Religion</i> 4 Years Full Scholarship - Korea Student Aid Foundation GPA: 3.75/4.3      GPA(Major): 3.85/4.3  Related Courses: Data Structures, Algorithms, Operating Systems, Creative Integrated Design, Programming Languages, Principles of Programming, Computer Architecture, Computer Programming, Hardware System Design, Logic Design, Electrical and Electronic Circuits, Discrete Mathematics
Sep 2016 - Feb 2017	<b>Kyoto University, Kyoto, Japan</b> <i>Exchange Semester</i>

Overseas Study Abroad Support System Scholarship - 480,000 yen(4800\$) JASSO

Related Courses: Programming Languages

Jul 2014      **Freie Universität Berlin, Berlin, Germany**  
*Summer Semester*

## Scholarships and Awards

- **Overseas study abroad support system scholarship**  
Oct 2016 - JASSO  
480,000 yen(4800\$) - 80,000 yen / month
- **SDE Excellent research**  
Feb 2016 - Dep. of Basic Education Center, Seoul National University  
*Criticism of the Clash of Civilizations seen through Morocco Mawazine Festival: Focused on 'Family'* - 3,000,000 won(3000\$)
- **A Chinese Classics Scholarship Student**  
Mar 2013 - Korea Foundation for Advanced Studies  
12,960,000 won(12,960\$) - 360,000 won / month  
A scholarship system for early selection of undergraduates who want to study oriental studies among the majors of humanities and social sciences, and to teach them the basic scriptures and major histories of the Chinese Classics Studies for three years and to help them grow into excellent scholars in the field of Oriental Studies.
- **Humanities 100 years scholarship**  
Mar 2011 - Korea Student Aid Foundation  
4 years full scholarship

## Projects

- **Hardware Accelerator (Hardware System Design)**  
Processing System, Matrix-Vector Multiplication IP, BRAM for DNN. On FPGA in Verilog, Cpp, Python.  
Calculation: 423.15% faster than CPU (Benchmark using MNIST)
- **Scheduler using Weighted Round Robin (Operating Systems)**  
Task Scheduler running reasonable performance. In Kernel 3.10.
- **Geo-tagged File System (Operating Systems)**  
File system accessible according to the GPS of a mobile device. In Kernel 3.10.
- **Rotation based Lock for Synchronization (Operating Systems)**  
RWLock-like Lock according to the rotation of a mobile device. In Kernel 3.10.
- **Async Web Engine (Creative Integrated Design)**  
Project with TmaxSoft. Outperformed Nodejs marginally. In Java.
- **Lisp Interpreter (Principles of Programming)**  
Racket interpreter. In OCaml.

## Languages

- **Korean**  
Native
- **English**  
Business Level  
TOEFL: 104/120      GRE: Verbal 156/170, Quant. 170/170
- **Japanese**  
Business Level  
Exchange semester in Japan