

Soo Kim – Résumé

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Personal Profile

Accomplished outstandingly (major 3.85/4.3) at the most prestigious university in Korea and
Gained industrial and research experience in the startup and the laboratory.

Education

Mar 2011 - Present	Seoul National University, Seoul <i>College of Liberal Studies</i> <i>Candidate for Bachelor's Degree in Computer Science and 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	Kyoto University, Kyoto <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 <i>Summer Semester</i>

Relevant Experience

Jul 2017 - Present	Programming Research Laboratory, Seoul National University, Seoul <i>Research Assistant Intern</i> Developed automated program corrector using machine learning, to feedback assignments of the elementary programming course automatically. Technologies: TensorFlow, Seq2seq
Dec 2015 - Aug 2016	Ab180, Seoul <i>Front-end Developer (6th member in the company)</i> Airbridge (Mobile app marketing performance analytics) Developed front-end web, to display marketing performance analysis results without delay (attracted the 600M won (540,000\$) investment from TIPS.) Technologies: React, Redux, Webpack, D3, Eslint, Flow, Enzyme, Amazon S3, Jenkins, Flask, Amazon E2. / As a team, Scrum, JIRA, Confluence
Mar 2015 - Aug 2016	Human Nature Studies and Philosophy of Biology, Seoul National University, Seoul <i>Research Assistant Intern</i> Researched Cultural Evolution, Morality and Sociality at Trans-disciplinary Research Center for Culture-Brain Dynamics
Sep 2011 - Jun 2013	Republic of Korea Army, <i>Sergeant</i>
Projects	Hardware Calculation Accelerator, Hardware System Design Implemented matrix-vector multiplication IP, BRAM for DNN on FPGA, using Verilog, Cpp, Python (resulted 423.15% faster performance than that of CPU in benchmark using MNIST)

Scheduler using Weighted Round Robin, Operating Systems

Implemented task scheduler with weighted round robin policy in kernel 3.10 (run with reasonable performance)

Geo-tagged File System, Operating Systems

Ext3 based 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

Developed asynchronous web engine like Netty with TmaxSoft in Java (outperformed Nodejs in response time benchmark using JMeter)

Lisp Interpreter, Principles of Programming

Implemented Racket (a dialect of Lisp) interpreter in OCaml

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

Skills and Others

- **Languages**

English: Business Level (TOEFL: 104/120, GRE: Verbal 156/170) / Japanese: Business Level

- **Interests**

Program Analysis, Software Engineering, Distributed Computing, Cloud Computing, Front-end Web

- **Links**

Linkedin: www.linkedin.com/in/soo-kim-carlsagan96

Github: github.com/carlsagan21