

Soo Kim – Résumé

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Personal Profile

Attending Seoul National University (major 3.85/4.3) and expected to graduate 08.2018. Gained industrial and research experience in an IT startup and a laboratory.

Interests: Program Analysis, Type System, Functional Programming, Software Engineering, Distributed Computing, Cloud Computing, Web.

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(CS 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 Activities and societies: Study of Middle East and Islam
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 Activities and societies: FleeGarden, Athletic circle <i>Introduction to Classical Japanese Literature - A</i> <i>Japanese Politics-E2 - A</i> <i>Contemporary Philosophy in Japan - A</i> <i>Japanese Intellectual History II-E2 - A</i> <i>Philosophy of Religion B (Lectures) in Japanese - A</i> <i>Programming Languages in Japanese - B</i> <i>Philosophy of Religion (Seminars) in Japanese - A+</i>
Jul 2014	Freie Universität Berlin, Berlin <i>Summer Semester</i> <i>Islam and The West</i> A
Mar 2007 - Feb 2010	Gimhae Foreign Language High School, Gimhae <i>English-Japanese Major</i>

Relevant Experience

Jan 2018 - Feb 2018	Samsung Electronics, Suwon <i>Software Development Intern</i> Mobile Division System Development
Jul 2017 - Dec 2017	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. Based on <i>sk_p: a neural program corrector for MOOCs</i> 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 EC2. / As a team, Scrum, JIRA, Confluence

Mar 2015 - **Human Nature Studies and Philosophy of Biology, Seoul National University, Seoul**

Aug 2016 *Research Assistant Intern*

Researched Cultural Evolution, Morality and Sociality at Trans-disciplinary Research Center for Culture-Brain Dynamics

Sep 2011 - **Republic of Korea Army,**

Jun 2013 *Sergeant*

Projects **ejs-simple-loader**, *npm package*

Developed ejss loader for webpack. Recorded total 1367 downloads.

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*

Implemented ext3 based file system accessible according to the GPS geographic information of a mobile device in kernel 3.10

Rotation based Lock for Synchronization, *Operating Systems*

Implemented a rwlock-like lock according to the rotation information 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

Transdisciplinary Research Center for Culture-Brain Dynamics, *Research Assistant Intern*

regarding Cultural Evolution, Morality and Sociality

The Korean Society for Cognitive Science Annual Conference, 2015, *Undergraduate Staff*

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, OPIc: IH) / Japanese: Business Level

- **Links**

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

Github: github.com/carlsagan21

Volunteer Experience

- **Educator**

People who Share Leanings

Jul 2011 - Aug 2011

Education

Educating junior high school students

540min (3 times)

- **Volunteer**

Asian Bridge

Feb 2014 - Apr 2014

Poverty Alleviation

2014.2.16 2.24

India Varanasi

60 hours

- **Founder / Volunteer**

4 battalion volunteers

Mar 2013 - May 2013

Education

Educating English and Math to local students

48 hours

While under military service, I organized volunteer group for educating local students. Connected with local children center, Emmanuel local children center located in Busan, we educated children who can hardly access to private educational institutes.

Organization

- **Middle East Study Club**

Mar 2014 ? Dec 2015

Lead

A voluntary group formed by students to study Middle East Area Studies.