

Soo Kim – Résumé

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|----------------------|--------------------------|---------------------|-----------------------|
| Location | Seoul, Republic of Korea | Mobile Phone | +82 10 8560 6797 |
| Year of Birth | 1991 | Email | carlsagan96@gmail.com |
| Nationality | Republic of Korea | | |

Personal Profile

Graduated Seoul National University (major 3.85/4.3)

Experienced in Web, DB, and Embedded system in ab180, SAP Labs, and Samsung Mobile

Research Experience in Programming Language laboratory (ROPAS) in SNU

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

Education

Mar 2011 - **Seoul National University, Seoul**

Aug 2018 *College of Liberal Studies*

Bachelor of Science in Computer Science and Engineering

Bachelor of Arts in Cognitive Studies of Religion

4 Years Full Scholarship - Korea Student Aid Foundation

GPA(CS major): 3.85/4.3 GPA: 3.77/4.3

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 - **Kyoto University, Kyoto**

Feb 2017 *Exchange Semester*

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

Related Courses: Programming Languages

Activities and societies: FleeGarden, Athletic circle

Introduction to Classical Japanese Literature - A

Japanese Politics-E2 - A

Contemporary Philosophy in Japan - A

Japanese Intellectual History II-E2 - A

Philosophy of Religion B (Lectures) in Japanese - A

Programming Languages in Japanese - B

Philosophy of Religion (Seminars) in Japanese - A+

Jul 2014 **Freie Universität Berlin, Berlin**

Summer Semester

Islam and The West A

Mar 2007 - **Gimhae Foreign Language High School, Gimhae**

Feb 2010 *English-Japanese Major*

Relevant Experience

Apr 2018 - **SAP Labs Korea, Seoul**

Present *Software Development Intern*

Labs Korea Kernel Team

Research on Index adviser in SAP HANA

Jan 2018 - **Samsung Electronics, Suwon**

Feb 2018 *Software Development Intern*

Mobile Division System Development

Jul 2017 - **Programming Research Laboratory, Seoul National University, Seoul**

Dec 2017 *Research Assistant Intern*

Developed automated program corrector using machine learning, to feedback assignments of the elementary programming course automatically. Based on *sk_p: a neural program corrector for MOOCs*

Technologies: TensorFlow, Seq2seq

- Dec 2015 - **Ab180, Seoul**
 Aug 2016 *Front-end Developer (6th member in the company)*
 Airbridge (Mobile app marketing performance analytics)
 Developed front-end web, the dashboard to display marketing performance analysis results
 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

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 (TOEIC: 970, 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