**Soo Kim – Résumé**

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# 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 - [Programming Research Laboratory, Seoul National University](http://ropas.snu.ac.kr/)

Present *Research Assistant*

Automated program corrector using machine learning. Technologies: Tensorﬂow, seq2seq

# Work Experience

Dec 2015 - [**Ab180, Seoul, Republic of Korea**](https://airbridge.io/)

Aug 2016 *Front-end Developer*

Airbridge (Mobile app marketing performance analytics) https://airbridge.io/ Developed front-end web alone using React.

Attracted the 600M won(540,000$) investment from TIPS. <http://www.jointips.or.kr/>

Technologies: React, Redux, Webpack, D3, Eslint, Flow, Enzyme, Amazon S3, Jenkins, Flask, Amazon E2. / As a team, Scrum, JIRA, Conﬂuence, Trello

# Education

## Mar 2011 - [Seoul National University, Seoul, Republic of Korea](http://www.snu.ac.kr/index.html)

Present *College of Liberal Studies*

*Candidate for Bachelor?s Degree in Computer Science Engineering Candidate for Bachelor?s Degree in Cognitive Studies of Religion*

4 Years Full Scholarship - [Korea Student Aid Foundation](http://eng.kosaf.go.kr/jsp/main.jsp) 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 Pro- gramming, Hardware System Design, Logic Design, Electrical and Electronic Circuits, Discrete Mathematics

Sep 2016 - [**Kyoto University, Kyoto, Japan**](http://www.kyoto-u.ac.jp/)

Feb 2017 *Exchange Semester*

Overseas Study Abroad Support System Scholarship - *480,000 yen(4800$)* [JASSO](http://www.jasso.go.jp/ryugaku/tantosha/study_a/short_term_h/index.html) Related Courses: Programming Languages

## Jul 2014 [Freie Universität Berlin, Berlin, Germany](http://www.fu-berlin.de/)

*Summer Semester*

# Projects

## Hardware Accelerator (Hardware System Design)

Processing System, Matrix-Vector Multiplication IP, BRAM for DNN. On FPGA in Verliog, Cpp, Python.

Caculation: 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](https://kr.tmaxsoft.com/main.do). 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