

# JINYOUNG OH

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github.com/EEngblo

## EDUCATION

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- Korea Advanced Institute of Science and Technology (KAIST)** Mar 2016 - (Aug 2020)  
*Senior undergraduate* Daejeon, Republic of Korea
- Bachelor of Science in School of Computing (Advanced Major & Honor Program)
  - Upper GPA: **4.3/4.3** (4.0/4.0)
  - Major GPA: **4.26/4.3** (4.0/4.0)
  - Overall GPA: **4.15/4.3** (3.95/4.0)
- Georgia Institute of Technology** Aug 2019 - Dec 2019  
*Exchange student* Atlanta, GA
- GPA: **4.0/4.0**

## HONORS AND AWARDS

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- KAIST Presidential Fellowship (KPF)**, KAIST, 2018 - 2020
- Honor for the top 2% student in KAIST; Funded up to \$20,000 for academic activities
- Summa Cum Laude*, KAIST, (expected)
- Mirae Asset Global Exchange Scholarship, Mirae Asset Park Hyeon Joo Foundation, 2019
- \$7,000 student grant for exchange student program
- National Science and Engineering Scholarship, Korea Student Aid Foundation, 2018 - 2020
- Full tuition covered for Bsc. (\$7,000/year, for 2 years)
- KAIST Alumni's Scholarship, KAIST Alumni Association, 2017 - 2020
- \$4,000/year for 3 years student grant
- 1st place in TKCTF 2019, Georgia Institute of Technology, 2019
- \$1,000 prize
- LINE Scholarship, LINE corporation, 2018
- \$4,000 student grant
- KAIST Leadership Mileage Diamond Award, KAIST, 2018
- Certification for the top 3% student with Leadership Mileage in KAIST
- Dean's List × 2, KAIST, Spring 2018 & Fall 2018
- Silver Award in Samsung Human-Tech Paper Award, Samsung Electronics co. ltd, 2015
- Awarded \$5,000 as the first author of the good paper

## RESEARCH INTERESTS

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Operating systems, Computer architecture, Security, Mobile computing, Human-computer interaction

## PUBLICATION

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1. Hyunsung Cho, **Jinyoung Oh**, Juho Kim, Sung-Ju Lee. Demo: Sender-Controlled Mobile Instant Message Notifications Using Activity Information. *In The 17th ACM Annual International Conference on Mobile Systems, Applications, and Services (MobiSys '19)*, Seoul, Republic of Korea, June 2019
2. Hyunsung Cho, **Jinyoung Oh**, Juho Kim, Sung-Ju Lee. (Anonymized yet). *ACM Transactions on Social Computing; Proceedings of the ACM Conference on Computer-Supported Cooperative Work (CSCW '20)* (to appear)

## RESEARCH EXPERIENCES

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- Unikernel-based Disaggregated Memory System Optimization** Jan 2020 - (ongoing)  
*Research Intern* Advised by Prof. Youngjin Kwon, KAIST
- Ongoing project
- Sender-engaged Context-Aware Messaging Notification System** Dec 2018 - Jan 2020  
*Research Intern / Undergraduate Research Program* Advised by Prof. Sung-Ju Lee, KAIST
- Design, implement, and conduct user experiment with new notification management system for Mobile Instant Messaging by sharing receiver's context with sender
  - Design and develop Android application that automatically regulates notification on behalf of a user
- Study about TLB Shutdown in Linux Kernel for Optimization** Feb 2018 - Jun 2018  
*Individual Research* Advised by Prof. Jaehyuk Huh, KAIST
- Read several related papers and Linux kernel code that related to TLB shutdown to know about causes and find solutions for optimization
- Geometry Education Platform with Haptics for Blind Students** Jun 2017 - Aug 2017  
*Individual Research* Advised by Prof. Jinah Park, KAIST
- Implemented prototype for blind students to learn quadratic curves and surfaces with haptic device

## WORK EXPERIENCES

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- Hayanmind Co.** Jun 2018 - Nov 2018  
*Developer / Research Intern* Daejeon, Korea
- Developed Android/iOS application with React Native for studying English with YouTube videos
  - Improved usability by analyzing user behavior, redesigning and implementing new features

## TECHNICAL SKILLS

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<b>Advanced</b>	C, C++11, Javascript, React, React Native, Python, Arduino
<b>Moderate</b>	MATLAB, HTML/CSS, L <sup>A</sup> T <sub>E</sub> X, Android
<b>Novice</b>	Kotlin, C#, Unity, Java, OpenGL, CUDA, TensorFlow

## LINGUISTIC SKILLS

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- Upper-intermediate in **English** and Native in **Korean**
- TOEFL iBT: 99 (Reading: 29, Listening: 29, Speaking: 17, Writing: 24), December 16th, 2018
  - In KAIST, most lectures are held in English; also, have attended lab meetings held in English

## TERM PROJECTS

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- Pintos** Mar 2019 - May 2019
- Implemented kernel abstractions such as thread, virtual memory, and file system including system calls
- Parallel sparse-dense matrix multiplication** Mar 2019 - June 2019
- Designed and implemented parallel algorithm for sparse-dense matrix multiplication with CUDA, SSE, OpenMP, and Pthread
- KENS: my Implementation of TCP** [link] Sep 2018 - Dec 2018
- Implemented most TCP functions from `socket()` to `close()`, including Congestion Control
- Custom-built computer purchasing platform for newbies** [link] Mar 2018 - Jun 2018
- Implemented a platform for newbies to purchase custom-built computer; focused on usability
- Utility-based Way-partitioning with Dynamic Insertion Policy** [link] Mar 2018 - Jun 2018
- Suggested and implemented new cache insertion and partitioning policy and evaluated its performance