

Junghyun Kim

SOFTWARE ENGINEER · DATA SCIENCE · CRYPTOGRAPHY · ALGORITHM

455 14th St. NW, Atlanta, GA, 30318

☎ (+1) 470-728-2232 | ✉ conankunioi@gmail.com | 🏠 conankuncs.github.io | 📷 conankuncs | 🌐 jkim904

About Me

- A new graduate from Georgia Tech who is passionate about technology and looking for full time position in **Software Engineering**.
- Experienced in problem-solving and Object-Oriented Programming.
- Having strong foundation in computer science and mathematics.
- Learn and apply new technologies quickly; Work well in a team or on an individual basis.
- **Skills:** C/C++, JAVA, PYTHON, PHP, HTML, CSS, JAVASCRIPT, JQUERY, Node.js, Django, SQL, CUDA, OPENMP, BAZEL, Linux

Education

Georgia Institute of Technology

M.S. IN COMPUTER SCIENCE · MACHINE LEARNING

Atlanta, GA

Jan.2018-Dec.2018

Georgia Institute of Technology

B.S. IN COMPUTER SCIENCE · THEORY, ARTIFICIAL INTELLIGENCE · GPA: 3.72/4.0

Atlanta, GA

Aug.2015-Dec.2017

Experience

Google Inc · Google Ads (De-duped Reach Team)

Los Angeles, CA

SOFTWARE ENGINEERING INTERN

May. 2018 - Aug. 2018

- Improved performance of validation pipeline for traffic estimation for advertisements (AdWords) by three times with Google's F1 distributed database engine and statistical estimation algorithm called HyperLOGLOG++. Also, optimized the performance with various innovative algorithmic approaches.

SAMSUNG Electronics · Security Lab

Seoul, S.Korea

RESEARCH INTERN

Jun. 2017 - Aug. 2017

- Conducted research on privacy preserving fingerprint authentication based on minutiae points with function-hiding Inner Product Encryption (IPE) to protect sensitive biometric data even when either the server or device is hacked.
- Implemented C++ based prototype of privacy preserving fingerprint authentication protocol and tested over a large dataset and greatly improved performance by deploying CPU-based parallelism with OPENMP
- Paper: <https://goo.gl/JrTHuo>

Georgia Institute of Technology · HPC Garage Lab

Atlanta, GA

RESEARCH ASSISTANT

Aug. 2017 - Present

- Conducted research on accelerating Tensor Factorization algorithm (which is commonly used in machine learning and data science) using CPU and GPU based parallelism and statistical sampling method.

Georgia Institute of Technology · Stadium - IoT Lab

Atlanta, GA

RESEARCH ASSISTANT

Aug. 2016 - Present

- Worked on analyzing and visualizing the data with Django and PHP obtained from sensors in Bobby Dodd Stadium at Georgia Tech.

Georgia Institute of Technology

Atlanta, GA

TEACHING ASSISTANT

Jan. 2016 - Present

- CS 3510 (Design & Analysis Algorithm), CS 4510 (Automata & Complexity), CS 2051 (Honors Discrete Math), MATH 3012 (Applied Combinatorics)

Projects

Honeycomb Critique

PROJECT MANAGER

Jun. 2016 - Jul. 2016

- Created a web application that visualizes statistics of all classes' and instructor's grade distributions at Georgia Tech using Node.js and MYSQL.

IT Factory COIN

PROJECT MANAGER

Mar. 2014 - Dec. 2015

- Created and managed online judge (like HackerRank) tailored for classroom setting using C/C++, PHP, and MYSQL.

Withstudy

SENIOR SOFTWARE ENGINEER

Mar. 2013 - Nov. 2013

- Created a mobile application where students can manage study plans and extracurricular activities using PHP and JAVA (android programming).

Honors & Awards

2013 **Honorable Mention**, SK Teen App Challenge

Seoul, S. Korea

2011 **Silver Medal**, Korean Olympiad in Informatics

Seoul, S. Korea

2011 **Gold Medal**, 5th National Programming Contest

Suwon, S. Korea