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Abo**ut 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.
- · Learn and apply new technologies quickly; Work well in a team or on an individual basis.
- · Language & OS: C/C++, JAVA, PYTHON, PHP, HTML, JAVASCRIPT, SOL, WINDOWS, MACOS, LINUX
- Skills: Parallel Computing(CUDA, OPENMP, CONCURRENCY), PROTO, BAZEL, Django

Education

Georgia Institute of Technology

Atlanta, GA

M.S. IN COMPUTER SCIENCE · MACHINE LEARNING Georgia Institute of Technology

Jan.2018-Dec.2018

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

Atlanta, GA Aug.2015-Dec.2017

Experience_

Google · Google Ads (De-duped Reach Team)

Los Angeles, CA

SOFTWARE ENGINEERING INTERN · C++ · PYTHON · SQL · PROTO · BAZEL · PARALLEL/DISTRIBUTED COMPUTING

May. 2018 - Aug. 2018

• Built highly scalable parallel data processing pipeline for validating traffic estimation in Adwords using statistical estimation algorithm "HY-PERLOGLOG++," Google's distributed database engine F1, and MapReduce with Google's high-scale parallel data pipeline library FLUME. My new system improved the performance by 10 times compared to an old system.

SAMSUNG Electronics · Security Lab

Seoul, S.Korea

RESEARCH INTERN · C++ · OPENMP

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 · C++ · OPENMP · CUDA

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 - IoPT Lab

Atlanta, GA

RESEARCH ASSISTANT · PYTHON · PHP · DJANGO

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 · NODE.JS · JAVASCRIPT · MYSQL

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 · C++ · PHP · JAVASCRIPT · MYSQL

Mar. 2014 - Dec. 2015

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

Withstudy

SOFTWARE ENGINEER · PHP · JAVASCRIPT · JAVA · MYSQL

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 Suwon, S. Korea

2011 Gold Medal, 5th National Programming Contest

JUNGHYUN KIM · RÉSUMÉ **SEPTEMBER 21, 2018**