Software Engineer · Data Science · Cryptography · Algorithm

Seattle, WA

Science · Cryptography · Algorithm

Seattle, WA

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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.
- 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, SQL, 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

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

Suwon, S. Korea