HONG NI

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PROFESSIONAL SUMMARY

Self-motivated candidate skilled in Python and C++, critical thinking, and troubleshooting. A team player worked in a large international collaboration (CMS at CERN) with over 3000 members. Strong analytical skills trained during Ph.D. study. Seeking software engineer internship for 2019 summer.

EDUCATION

University of Chicago, Chicago, IL — *Aug. 2018 – Present*
M.S. in Computer Science, Expected in Jan. 2020

Vanderbilt University, Nashville, TN — *2012 – 2018*
Ph.D. in Physics
The Most Outstanding Student Publication Award — *2017*
The Robert T. Lagemann Award — *2013*

University of Science and Technology of China, Hefei, China — *2008 – 2012*
B.S. in Physics

EXPERIENCE

Vanderbilt University — Aug. 2015 – Aug. 2018
Research Assistant

- Studied a new matter believed to exist at the beginning of the Universe with heavy ion collisions
- Led two analyses with one published in *Physics Letters B* and the second one is in review
- C++, Python, and Job scheduler (SLURM) used in a daily basis to analyze data in terabyte scale
- Detected and proved the problem in a data set, and saved weeks' efforts of colleagues

Vanderbilt University — Aug. 2012 – Jul. 2015
Teaching Assistant

- Performed activities like teaching, grading, holding help-desk sessions
- Facilitated group sessions and provided one-on-one support

PROJECTS

Web Application with Database System

- Designed Entity-Relationship Diagram for the database
- Built backend using MySQL
- Implemented frontend application with PHP

SKILLS

Programming Languages	Python, C/C++, SQL, MATLAB
Software & Tools	LaTeX, Git, Apache Subversion (SVN), ROOT
Operating Systems	Macintosh, Linux, Windows

SELECTED PUBLICATIONS

Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC, Physics Letters B, (768) 2017
Measurement of the nuclear modification factor of identified strange and multi-strange particles in pPb collisions at 5.02 TeV with the CMS experiment, CMS-PAS-HIN-16-013, 2018