

Shuming Hu

Software Engineer at CGG - Seismic Imaging

Houston, TX - Email me on Indeed: [indeed.com/r/Shuming-Hu/34c05d99e0f45b0e](https://www.indeed.com/r/Shuming-Hu/34c05d99e0f45b0e)

WORK EXPERIENCE

Software Engineer

CGG - Houston, TX - March 2014 to Present

- Designed and implemented generic grid data structure (C++) to provide consistent and convenient abstractions and interfaces.
- Optimized ASWIM module (C/C++) through a new multi-threaded I/O design (gained 100% performance while reducing data server loads) and direct caching of FFT result (3 times overall speed up). Enhanced ASWIM's memory capability by implementing a multi-threaded ring buffer.
- Memory debugging by implementing guard-page malloc.

EDUCATION

Ph.D. in Computational Physics

North Carolina State University - Raleigh, NC
April 2000 to August 2013

B.S. in Engineering

Fudan University - 上海市
April 2000 to June 2006

SKILLS

C/C++(MPI, pthread, cuda, STL, c++11), scala, data mining(frequent patterns), numerical computing.