Nicholas J. Weidner

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Objective

To obtain an internship or co-op position at an innovative technology company or agency while pursuing my bachelors degrees in Computer Science and Mathematics.

Education

University of South Carolina, Columbia, SC — May 2016
Bachelor of Science in Computer Science
Bachelor of Science in Mathematics
GPA: 3.4/4.0 overall; 3.7/4.0 in computer science

Technical Skills

Operating Systems: Windows 7; Windows XP; Mac OS X; Linux, Ubuntu
Programming and Web Design: Java; JavaScript; C++; FORTRAN; HTML; CSS; OpenGL; Python
Software: MS Office Suite; Eclipse; Adobe Creative Suite; Android SDK; Blender; ParaView; MatLab

Professional Experiences

Argonne National Laboratory- Environment Science Division
Summer Undergraduate Laboratory Intern (SULI) — May 2014 – August 2014
- Developed visualization tools using ParaView for hydrology simulation data.

University of Notre Dame – Center for Research Computing
Research Experience for Undergraduates (REU) — May 2013 – August 2013
- Profiled storm-surge simulation code on the Texas Advanced Computer Center (Stampede)

Presentations, Publications, and Proposals

- "Visualizing Water Flow Data in the Upper Mississippi River Basin"
  - *Argonne SULI Research Presentation*, August, 2014.
- "Towards Improving the Performance of the ADCIRC Storm-Surge Modeling Software,"
  - *International Conference for HPC (SC14),* Student Poster Competition*,* November 2014.
  - *Caravel: USC's Journal of Undergraduate Research*, submitted October, 2014.
  - *Magellan Apprentice Research Grant*: *USC Undergraduate Research Office*, Funded, 2014.
  - *Notre Dame Research Symposium*, August, 2013.

Honors

Wilson Scholarship in Computing, USC Capstone Scholar, College of Engineering and Computing Dean's List, National Society of Collegiate Scholars, Golden Key International Honor Society

Technical Courses

Beyond Freshmen Curriculum (as of November, 2014): vector calculus, discrete mathematics, numerical linear algebra, ordinary differential equations, digital logic design, computer architecture, software engineering, operating systems, data structures and algorithms, programming language structures, computer graphics, computer game development

Leadership Experiences

Association for Computing Machinery: Treasure — August 2014-Present
- Planned and managed events with other officers

Capstone Ambassador — Fall 2013
- Organized events and helped incoming freshmen transition into college

Fencing Club: Secretary — August 2013-May 2014
- Kept track of club equipment and organized club events with other officers

Professional Activities

Theta Tau Professional Engineering Fraternity — 2014-Present
Association for Computing Machinery — 2012-Present
Society for Industrial and Applied Mathematics — 2012-Present

Foreign Languages

Japanese (basic)