Renée Waverly Sonntag

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EDUCATION

Bachelor of Science in Computer Science, December 2021
Northern Illinois University, DeKalb, IL
Emphasis: Software Development
Minors: Electrical Engineering & English
Presidential Scholar
Lower Division Honors
GPA: **3.71/4.00**

ADDITIONAL SKILLS

Programming Languages: Javascript, C/++ (Win32 & POSIX), Assembly (8086, HLASM), Fortran, C#,
   HTML5, CSS3, Python, and PHP
Software Stacks: GitHub, Singularity, Docker, Node, D3, Jekyll, cron, gcc, and .NET

EXPERIENCE

Visiting Student, Argonne National Laboratory, Lemont, IL, August 2021 to Present
- Containerized EGL and OptiX for visualization workflows using Docker and Singularity.

Research Aide, Argonne National Laboratory, Lemont, IL, May 2020 to August 2021
- Containerized ParaView and OSPRay for visualization workflows using Docker and Singularity.

Undergraduate Research Assistant, NIU ddiLab, DeKalb, IL, September 2019 to Present
- Compare performance between containerized and native visualization stacks.
- Transition Postgres database stack to Docker for rapid deployment and synchronization.
- Implement Web Push standards to deliver notifications from the terminal.

Software Intern, Revcor Inc., Carpentersville, IL, September 2016 to May 2021
- Designed a multi-fan relationship visualization tool, which was implemented as an interactive
   client-facing website, and a PDF generating webservice.
- Architected engineering data analysis software, which translates raw air chamber data into
   manipulatable performance curves. Software development involved following the
   ANSI/AMCA210-16 standards for calculations & simulating test parameters.
- Collaborated with engineers to produce additional software tools to improve their workflow.

EXTRA CURRICULAR/VOLUNTEER:

CS Team Member, NIU Mars Rover, March 2019 to Present
- Refreshed website style & layout, via Jekyll to facilitate release of monthly newsletters.