

Daniel Graeme McGreer
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U.S. Citizen

Work Experience

Lawrence Livermore National Laboratory Summer of 2020

- Refactored C/C++ code in SUNDIALS (SUite of Nonlinear and Differential/ALgebraic Solvers)
- Enabled SUNDIALS to be able to run parallel on a greater variety of distributed systems
- Wrote Linux and Python scripts to collect performance data and analyze efficiency metrics
- Partook in code reviews to assure my code was fitting for our users and delivered on time
- Added to SUNDIALS documentation after implementing my code changes
- Work e.g: https://github.com/LLNL/sundials/blob/master/src/nvector/raja/nvector_raja.cpp

Carl Zeiss Meditec Summer of 2019

- Worked with Senior engineers to accomplish projects based on their Agile workflow
- Modified established C# code to introduce new image processing algorithms and functions
- Translated Matlab code into a parallel computing platform (CUDA)
- Presented accomplished work to R&D team at the end of the internship

Skills

C; C++; CUDA; Git; Linux; Python; JAVA;

Education

University of California, Santa Cruz Expected Graduation: June 2021
Bachelor of Science, Computer Science Major, Computer Engineering Minor G.P.A. 3.95

Some relevant completed & planned coursework:

CSE 101 Algorithms & Abstract Data Types: A+

CSE 120 Computer Architecture: A+

CSE 156 Network Programming: (in progress)

CSE 130 Computer System Design: A+

CSE 180 Database Design: A+

CSE 144 Applied Machine Learning: (in progress)

Extracurricular

Winter Classic Invitational Cluster Coding Competition February 2021 - April 2021(current)

- Selected to join a 5 person undergraduate team to compete in an HPC coding competition
- Learning from Google engineers on how to utilize their distributed systems resources
- Will tune a set of HPC applications in aim to achieve best performance on our cluster

Santa Cruz 2020 Hackathon Winter 2020

- Created web app with a small team that plotted recent fire locations on an interactive map