Chase Roberts
Computer Science ● Mathematics

Contact
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507-461-5169

Coding Languages
Python
C++
C
Javascript
C#
Java
CUDA + MPI

Honors
UPE CS Honor Society
   President Spring 2016
Deans List
   2014 - 2016
Delta Phi
   Highest GPA Fall 2015

Relevant Courses
Machine Learning
Graduate Algorithms
Parallel Programming
Binary Exploitation
Statistics
Data Structures
Math Analysis
Quantum Physics

Github
github.com/Thenerdstation

Foreign Languages
German - Intermediate
Spanish - Elementary

Hobbies
Rock Climbing
Photography
Film making

Current Education
Rensselaer Polytechnic Institute - Class of 2018
GPA: 3.86   Major GPA: **3.91**
Recipient of the 2024 Lally Bicentennial Award.
Enrolled in the school of science working towards a bachelor degree in Computer Science and Mathematics. Expected graduation is May 2018.

Software Internships
Bloomberg L.P. - New York City, NY
June 2016 - Present
Working on machine learning software that detects errors in Bloomberg's financial database.

Intentional Software - Seattle, WA
May 2015 - August 2015
Was a member of the graphics team. Worked on shader meta program implementation. Decreased shader build time from several minutes to a few seconds with dynamic compilation. Also added features to the 2D Geometry API, focusing on efficient elliptical and Bezier curve rendering.

Undergraduate Research
SCOREC - Supercomputing Research
September 2015 - December 2015
Helped with creation of experimental automatic differentiation C++ data type. This data type can take arbitrary derivatives of functions without any major refactoring of existing code. Arbitrary derivatives were created by doing recursive type templating of our base AD type. The code is open-sourced and can be seen on SCOREC's github.

Extra Curricular
UPE Computer Science Honor Society
Inducted Fall 2015
Elected President Spring 2016
Current President of RPI's computer science honor society Upsilon Pi Epsilon. Our society organizes several events throughout the year, including several tech talks, programing competitions, tutoring sessions, and interview prep.

RPISEC
Member since Spring 2015
RPISEC is a highly successful security club at RPI. We have consistently won or placed highly in dozens of CTF across the continent. We also invest heavily in training new members security skills by teaching classes and giving weekly talks.