

Jonathan Sharman

Education

Rice University

Computer Science PhD student

Houston, TX

Fall 2014 – present

- Research interests: Usable computer security, high-performance computing
- MS thesis: Exploring Tradeoffs in Parallel Implementations of Futures in C++
- Selected coursework: Topics in Compiler Construction, Logic in Computer Science, Principles of Programming Languages, Parallel Programming, Adv. Compilation or Vector Parallel Processors, Computer Security, Algorithmic Robotics
- GPA: 3.59

Grove City College

Bachelors of Science, Computer Science and Mathematics

Grove City, PA

Spring 2014

- Cumulative GPA 3.75, major GPA 3.69
- Selected coursework: Console Game Design/Development, Analysis of Algorithms, Computer Security, Web Programming Technologies, Intro to Computer Graphics, Abstract Algebra, Theory of Stats I

Relevant Work Experience

Teaching Assistant, Rice University

COMP 322, Fundamentals of Parallel Programming

Houston, TX

Spring '16, '17, '18

- Assisting with homework and lab creation, lab operation, tutoring, and grading

COMP 215, Introduction to Program Design

Fall '15, '16, '17, '18

- Assisted with projects, labs, tutoring, and grading
- Designed and presented an introductory tutorial on OOP and Java

Co-Design Summer School, Los Alamos National Laboratory

Los Alamos, NM

Summer 2016

- Worked on a team of physicists and computer scientists to develop 2COOL, a mini-app for handling data distribution and parallelization of smoothed particle hydrodynamics code

Tutor, Grove City College

Grove City, PA

Fall '12, '13

- Tutored students in Programming I and Programming II

Teaching Assistant, Grove City College

Grove City, PA

Computer Science Department

- Data Comm. & Networking homework
- Programming II

Fall 2013

Fall 2012

Math Department

- Graded student homework assignments for Discrete Mathematics

Fall 2011

Software Engineering Intern

Pittsburgh, PA

B-Three Solutions

Summer '12, '13

- Collaborated on team of four to rewrite an online report service and its corresponding web forms
- Worked on team of two to port reports from Crystal Reports to SQL Server Reporting Services
- Worked on a team of four to retool ambulance billing software written in C++ into a web application written in C# using Silverlight

Honors and Activities

- GCC Trustees' Scholarship, awarded to no more than 24 students per year
- GCC John David Ormerod '92 Memorial Scholarship
- GCC Presidential Scholarship
- Member, ACM, 2013 – 2014
- Member, Grove City College Touring Choir, Fall 2012 – Spring 2013
- Member, Delaware All State Choir, 2009-2010
- Sussex Technical High School Valedictorian of 2010 (302 students in class); cumulative GPA 4.0
- Delegate, Delaware Boys State, 2009
- Delegate, United Nations Pilgrimage for Youth, Oddfellows and Rebekahs program, 2009

Technology Skills and Experience

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|----------|----------|--------------|-------|
| • C/C++ | • OpenMP | • JavaScript | • SVN |
| • C# | • MPI | • HTML | • Git |
| • Java | • Cilk | • CSS | • SQL |
| • Python | | | |