

Benjamin D. Mayes

6000 Reynolds Drive #1242
Rochester, NY 14623
Phone (cell): (215) 595-3745
Email: bdm8233@rit.edu
Github: <https://github.com/Czahrien>

EDUCATION	<i>Bachelor of Science, Master of Science</i> Computer Science Rochester Institute of Technology, Rochester, NY, expected May 2013 Major: Computer Science Minors: Mathematics (in progress), Psychology (in progress) GPA: 3.97/4.00
COMPUTER SKILLS	<i>Languages:</i> C, C++, Haskell, Java, Standard ML, Python, Ruby, x86 assembly, MIPS assembly, Bash, \LaTeX <i>Operating System Experience:</i> Linux, Mac OS X, Windows, Solaris
PROJECT WORK	<i>Cumulonimbus:</i> 32-bit x86 operating system written from scratch. (C, x86 assembly) (Spring 2011) <ul style="list-style-type: none">• VESA drivers and a graphics library built on top of them.• Display and input multiplexing system built on top of the process system.• Mouse and keyboard drivers.• Math library using the x87 floating point unit.• Overhauled build tree to organize the monolithic kernel and increase modularity. <i>archlib:</i> A library for CPU simulation. (C++) (Summer 2011) <ul style="list-style-type: none">• Took code written for Sun's C compiler and ported it to compile under GCC 4.X. <i>Voting Manipulation Framework:</i> A framework for experimenting with various methods of election manipulation. (C++) (Summer 2010) <ul style="list-style-type: none">• Implemented the concepts of a generic vote and a generic voting system.• Implemented several voting systems with the generic framework.• Provided the ability to modify an election's votes and candidates on the fly.
EXPERIENCE	<i>CSI Undergraduate Research Fellow</i> Summer 2010 RIT, Rochester, NY <ul style="list-style-type: none">• Read current research on computational complexity of different forms of election manipulation.• Developed a framework for simulating election manipulation.• Presented findings at the RIT Undergraduate Research Symposium. <i>Computer Science Theory Tutor</i> Fall 2010, Winter-Spring 2012 RIT, Rochester, NY <ul style="list-style-type: none">• Tutored students on topics in theoretical Computer Science. <i>Student Lab Instructor</i> Fall 2011 (Python), Winter-Spring 2012 (C++) RIT, Rochester, NY <ul style="list-style-type: none">• Assisted Computer Science students with their lab work both inside and outside of the lab.• Graded submitted lab work and provided feedback.