

<p>Johnny Jacobs</p> <p><i>jjaco16@u.rochester.edu</i> (505) 500-6866 (cell)</p>	<p><u>MAJOR</u> <i>Computer Science</i></p> <p><u>MINOR</u> <i>Optical Engineering</i></p> <p>GPA: 3.8 Major GPA: 3.95</p>
	<p>OTHER INTERESTS</p> <p>Applied physics, applied chemistry, green energy, robotics, electric vehicles, engineering</p>
	<p>PROGRAMMING LANGUAGES</p> <p>Fluent in Java, C, Python, JavaScript, JQuery, CSS, HTML, Unix shell (bash, csh, etc.) Fortran. Proficient in MatLab and C++. Experience with Ruby, Prolog, Scheme (Lisp), and MySQL. Eager and able to learn new ones.</p>
	<p>EDUCATION</p> <p>University of Rochester, Rochester, NY 2013- present Los Alamos High School May 2013</p>
	<p>EMPLOYMENT HISTORY</p> <p>October 2012 – September 2014: Undergraduate Student intern Earth and Environmental Sciences Division Los Alamos National Laboratory</p> <p>May 2015 – current: Undergraduate Student intern Computational Physics Division Los Alamos National Laboratory</p>
	<p>VOLUNTEER ACTIVITIES</p> <p>2015: Los Alamos Triathlon 2010-13: Jemez Mountain Trail Run</p>
	<p>AWARDS</p> <p>Rochester Dean’s List, LANL Foundation Bronze Scholar, National AP Scholar, National Merit Scholar Commended Student, National Honor Society</p>
	<p>PROJECTS</p> <p>Dota 2 Stats (DotaBuff Stats Extension) – Published in the Chrome Web Store (also on GitHub). A chrome extension built using jQuery (JavaScript), HTML, and CSS. Takes stats from the website Dotabuff (which hosts stats for the game DotA 2) and displays them in a cool popup.</p> <p>Othello – On GitHub. A project for an Artificial Intelligence class. It involved making an Othello engine (algorithm that plays Othello, a board game). I took our current implementation which used negamax and alpha-beta pruning and rewrote it to use bitboards as well (64-bit number representations of the board) instead of an array-based board.</p>
	<p>PUBLICATIONS</p> <p>Zhenxue Dai, Philip H. Stauffer, J. William Carey, Richard S. Middleton, Zhiming Lu, John F. Jacobs, Ken Hnottavange-Telleen, and Lee H. Spangler. Pre-site Characterization Risk Analysis for Commercial-Scale Carbon Sequestration. <i>Environmental Science & Technology</i>. 2014, 48 (7), 5854–5861.</p>