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<b>Education</b>	<b>Rensselaer Polytechnic Institute</b> , Troy, NY B.S., Computer Science, Minor in Physics GPA: 3.76	Graduating May, 2016
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<b>Professional Experience</b>	<b>Software Engineer</b> , <u>Bloomberg L.P.</u> , New York, NY Summer 2014 <ul style="list-style-type: none"><li>• Developed an analytic tool to help the business teams better understand how external market data is provided to clients by leveraging field overload definitions.</li><li>• Developed the tool's back end using service-oriented architecture (SOA) to expose metadata of overloaded field mappings from a relational database.</li><li>• Designed the front end application which utilizes this SOA to allow the user to view and modify field overload definitions.</li></ul> <b>Software Engineer &amp; Physics Consultant</b> , <u>Mimir Physics</u> , Westbrook, ME Summers 2012-13 <ul style="list-style-type: none"><li>• Co-author of a (pending) patent for a hardware and software solution to account for variations in the spectra of multiple light sources in imaging applications.</li><li>• Developed an efficient image processor for high color bit depth images that analyzed color data to create color images with an absolute color error of <math>\Delta E^* &lt; 1</math>.</li><li>• Designed and prototyped custom hardware with an FTDI USB interface and developed software to interface with it.</li><li>• Increased the processing speed by a factor of nearly 100.</li></ul> <b>Software Engineer</b> , <u>Fairchild Semiconductor</u> , South Portland, ME Summer 2011 <ul style="list-style-type: none"><li>• Developed tools to automate quality assurance analyses, collate the data, and then distribute the results across the company's internal network.</li><li>• Provided a UI for the tools that was written in Perl using the Tk framework.</li></ul>
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<b>Other Projects</b>	<b>Monte Carlo Scrabble</b> – A real time agent implementing a Monte Carlo method and a hidden Markov model for a variation on scrabble. <b>TrippingWookie</b> – A computer vision focused gesture control library. Play 2048 by waving your hands! <b>MIPS Simulator</b> – A simulator written in C capable of running and stepping through MIPS binaries. <b>SignSight</b> – A unique computer vision approach to automatic traffic sign recognition.
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<b>Computer Skills</b>	<b>Languages:</b> C++ 5 years experience Bash, C, Python, SQL < 4 years experience <b>Software:</b> Git, Linux, Maple, Mathematica, OS X, Windows <b>Skills:</b> Extensive knowledge of color spaces and bitmap images
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<b>Honors &amp; Achievements</b>	<b>HackRU</b> - Organizer's Choice Award (Spring 2014). <b>Microsoft Coding Competition</b> - Tied for first place (October 2013). <b>Dean's List</b> - All semesters. <b>Rensselaer Leadership Award</b>
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