

**Jordan R. Horwich**  
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**Present Address**

2166 14th St  
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**Permanent Address**

4 Oak Street  
Cumberland, ME 04021

**Education**

**Rensselaer Polytechnic Institute**, Troy, NY  
B.S., Computer Science, Minor in Physics  
GPA: 3.76

Graduating May, 2016

**Professional  
Experience**

**Software Engineering Intern**, Bloomberg L.P. Summer 2014

- Developed an analytic tool to help the business teams better understand how external market data is provided to clients by leveraging field overload definitions.
- Developed the tool's back end using C++ and service-oriented architecture to expose metadata of overloaded field mappings from a SQLite database.
- Designed the front end application in javascript to allow the user to view and modify field overload definitions in the database.

**Software Engineer &**

**Physics Consultant**, Mimir Physics Summer 2012-13

- Co-author of a patent (pending application) for a hardware and software solution to account for variations in the spectra of multiple light sources in imaging applications.
- Developed an image processor in C++ for high color bit depth images that analyzed color data to create color images with an absolute color error of  $\Delta E^* < 1$ .
- Designed and prototyped custom hardware with an FTDI USB interface and developed software to interface with it.
- Increased the processing speed by a factor of nearly 100.

**Software Engineering Intern**, Fairchild Semiconductor Summer 2011

- Developed tools to automate quality assurance analyses, collate the data, and then distribute the results across the company's internal network.
- Provided a UI for the tools that was written in Perl using the Tk framework.

**Other  
Projects**

**SignSight** – A unique computer vision approach to automatic traffic sign recognition.

**TrippingWookie** – A computer vision focused gesture control library. Play 2048 by waving your hands! Developed at HackRU in the spring of 2014.

**FoodMate** – An iOS app for tracking kitchen inventory and splitting grocery bills dynamically based on inventory. Developed at PennApps in the fall of 2014.

**Monte Carlo Scrabble** – A real time agent implementing a Monte Carlo method and a hidden Markov model for a variation on scrabble.

**Computer  
Skills**

**Languages:** C++, Python, Bash      6 years experience  
C, SQL, Swift      < 3 years experience

**Software:** Git, Linux, Maple, Mathematica, OS X, Windows

**Honors &  
Achievements**

**HackRU** - Organizer's Choice Award (Spring 2014).

**Microsoft Coding Competition** - Tied for first place (October 2013).

**Dean's List** - All semesters.

**Rensselaer Leadership Award**