

Jordan R. Horwich
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Present Address
2166 14th St
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4 Oak Street
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Education **Rensselaer Polytechnic Institute**, Troy, NY Graduating May, 2016
B.S., Computer Science, Minor in Physics
GPA: 3.76

Courses

• Natural Language Processing	• Programming Languages	• Computer Graphics
• Computer Organization & Design	• Algorithms	• Data Structures

Professional Experience

Software Engineering Intern, Bloomberg L.P. Summer 2014

- Developed an analytic tool using C++ and service-oriented architecture on the back end to expose data from an SQLite database.
- Designed and developed the tool's front end application as a Bloomberg Terminal function in javascript to allow the user to view and modify data in the database.
- My tool was used to quickly fix a fatal error in the way market data from exchanges were stored. Similar errors previously took many hours to fix without my tool.

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 – [GitHub.com/VoidingWarranties/SignSight](https://github.com/VoidingWarranties/SignSight)
A unique computer vision approach to automatic traffic sign recognition.

TrippingWookie – [GitHub.com/VoidingWarranties/TrippingWookie](https://github.com/VoidingWarranties/TrippingWookie)
A computer vision focused gesture control library. Play 2048 by waving your hands!
Developed at HackRU in the spring of 2014.

FoodMate – [GitHub.com/VoidingWarranties/FoodMate](https://github.com/VoidingWarranties/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