

**Jordan R. Horwich**  
[GitHub.com/VoidingWarranties](https://github.com/VoidingWarranties)  
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Professional Experience	<b>Software Engineer, <u>Google</u></b> January 2017 – Present	
	<ul style="list-style-type: none"><li>• Currently working on <u>Google Knowledge Graph</u>, a part of Google Search.</li><li>• Developed horizontal tooling and infrastructure widely used throughout Search teams for ingestion and maintenance of data in the Knowledge Graph.</li><li>• Designed a UI and algorithm for performing arbitrary topological transformations on unsanitized structured data for the purpose of schema mapping.</li></ul>	
	<b>Software Engineer &amp; First Employee, <u>Nebulous Inc.</u></b> December 2015 – December 2016	
	<ul style="list-style-type: none"><li>• Developed, marketed, and pitched Sia, a blockchain-based decentralized storage network.</li><li>• Improved Sia's initial blockchain download by a factor of 25,000.</li><li>• Secured the gateway that maintains Sia's decentralized peer-to-peer network to prevent against eclipse attacks.</li><li>• Finalized Sia's REST-like API in preparation for launching out of beta.</li></ul>	
	<b>Software Engineer Intern, <u>LinkedIn</u></b>	Summer 2015
	<ul style="list-style-type: none"><li>• Implemented company and school mini-profiles UI for LinkedIn's homepage using the Play Framework in Scala and Dust.js as well as permalink UI for feed updates.</li></ul>	
	<b>Software Engineer Intern, <u>Intentional Software</u></b>	Spring 2015
	<ul style="list-style-type: none"><li>• Designed and developed a natural user interface using the Microsoft Kinect to implement a gesture and virtual touch screen interface.</li><li>• Wrote a hand pose classifier in C++ using feature matching in OpenCV.</li><li>• Developed an N-dimensional implementation in C++ of UW's \$1 Recognizer for atomic gesture recognition with the Kinect.</li><li>• Architected a data transformation pipeline for processing input from motion sensing devices such as the Kinect, Leap Motion, and Myo.</li></ul>	
	<b>Software Engineer Intern, <u>Bloomberg L.P.</u></b>	Summer 2014
	<ul style="list-style-type: none"><li>• Designed and developed a Bloomberg Terminal application using C++ and service-oriented architecture on the back end and javascript on the front end. This 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.</li></ul>	
	<b>Software Engineer &amp; Physics Consultant, <u>Mimir Physics</u></b>	Summer 2012 – 2013
Skills	<ul style="list-style-type: none"><li>• 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.</li><li>• 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 <math>\Delta E^* &lt; 1</math>.</li></ul>	
	<b>Languages:</b> Go, C++, C > 5 years experience	
	Angular, Typescript, Python 4 years experience	
	SQL, Swift, Scala < 3 years experience	
	<b>Software:</b> Mercurial, Git, MacOS, Linux	
Other Projects	<b>Offsite APFS Backup</b> – <u><a href="https://github.com/VoidingWarranties/Offsite-APFS-Backup">GitHub.com/VoidingWarranties/Offsite-APFS-Backup</a></u>	
	A non-destructive incremental backup utility for cloning APFS snapshots.	
	<b>MyoIntelligesture</b> – <u><a href="https://github.com/VoidingWarranties/Myo-Intelligesture">GitHub.com/VoidingWarranties/Myo-Intelligesture</a></u>	
	A library for processing raw data from the Thalmic Myo using a non-linear data pipeline.	
	<b>MyoHome</b> – <u><a href="https://github.com/VoidingWarranties/Myo-Home">GitHub.com/VoidingWarranties/Myo-Home</a></u>	
Education	A natural user interface for home automation using the Thalmic Myo. Allows you to control home appliances by pointing at them and gesturing. Heavily uses MyoIntelligesture.	
	<b>SignSight</b> – <u><a href="https://github.com/VoidingWarranties/SignSight">GitHub.com/VoidingWarranties/SignSight</a></u>	
	A unique computer vision approach to automatic traffic sign recognition.	
Courses	<b>Rensselaer Polytechnic Institute, Troy, NY</b> 2012 – 2015	
	81% of major requirements completed towards B.S., Computer Science GPA: 3.72	
Courses	<ul style="list-style-type: none"><li>• Machine Learning</li><li>• Human-Computer Interaction Usability</li><li>• Algorithms</li><li>• Computer Graphics</li><li>• Natural Language Processing</li><li>• Data Structures</li></ul>	