

Jordan R. Horwich
[GitHub.com/VoidingWarranties](https://github.com/VoidingWarranties)
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Professional Experience	Software Engineer, <u>Google</u> January 2017 – Present <ul style="list-style-type: none">Currently working on <u>Google Knowledge Graph</u>, a part of Google Search.Developed horizontal tooling and infrastructure widely used throughout Search teams for ingestion and maintenance of data in the Knowledge Graph.Designed a UI and algorithm for performing arbitrary topological transformations on unsanitized structured data for the purpose of schema mapping.
	Software Engineer & First Employee, <u>Nebulous Inc.</u> December 2015 – December 2016 <ul style="list-style-type: none">Developed, marketed, and pitched Sia, a blockchain-based decentralized storage network.Improved Sia's initial blockchain download by a factor of 25,000.Secured the gateway that maintains Sia's decentralized peer-to-peer network to prevent against eclipse attacks.Finalized Sia's REST-like API in preparation for launching out of beta.
	Software Engineer Intern, <u>LinkedIn</u> Summer 2015 <ul style="list-style-type: none">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.
	Software Engineer Intern, <u>Intentional Software</u> Spring 2015 <ul style="list-style-type: none">Designed and developed a natural user interface using the Microsoft Kinect to implement a gesture and virtual touch screen interface.Wrote a hand pose classifier in C++ using feature matching in OpenCV.Developed an N-dimensional implementation in C++ of UW's \$1 Recognizer for atomic gesture recognition with the Kinect.Architected a data transformation pipeline for processing input from motion sensing devices such as the Kinect, Leap Motion, and Myo.
	Software Engineer Intern, <u>Bloomberg L.P.</u> Summer 2014 <ul style="list-style-type: none">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.
	Software Engineer & Physics Consultant, <u>Mimir Physics</u> Summer 2012 – 2013 <ul style="list-style-type: none">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 $\Delta E^* < 1$.
Skills	Languages: C++, Python, Bash > 8 years experience Go, C, Angular, Typescript > 5 years experience SQL, Swift, Scala < 3 years experience Software: Mercurial, Git, MacOS, Linux
Other Projects	Offsite APFS Backup – <u>GitHub.com/VoidingWarranties/Offsite-APFS-Backup</u> A non-destructive incremental backup utility for cloning APFS snapshots.
	MyoIntelligesture – <u>GitHub.com/VoidingWarranties/Myo-Intelligesture</u> A library for processing raw data from the Thalmic Myo using a non-linear data pipeline.
	MyoHome – <u>GitHub.com/VoidingWarranties/Myo-Home</u> 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.
	SignSight – <u>GitHub.com/VoidingWarranties/SignSight</u> A unique computer vision approach to automatic traffic sign recognition.
Education	Rensselaer Polytechnic Institute , Troy, NY 2012 – 2015 81% of major requirements completed towards B.S., Computer Science GPA: 3.72
Courses	<ul style="list-style-type: none">Machine LearningHuman-Computer Interaction UsabilityAlgorithmsComputer GraphicsNatural Language ProcessingData Structures