

Jordan R. Horwich

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Professional Experience

- Software Engineer, Google** January 2017 – Present
- Currently working on [Google Knowledge Graph](#), 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, Nebulous Inc.** December 2015 – December 2016
- 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, LinkedIn** Summer 2015
- 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, Intentional Software** Spring 2015
- 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, Bloomberg L.P.** Summer 2014
- 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, Mimir Physics** Summer 2012 – 2013
- 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** – [GitHub.com/VoidingWarranties/Offsite-APFS-Backup](https://github.com/JordanHorwich/VoidingWarranties/Offsite-APFS-Backup)
A non-destructive incremental backup utility for cloning APFS snapshots.
- MyoIntelligesture** – [GitHub.com/VoidingWarranties/Myo-Intelligesture](https://github.com/JordanHorwich/VoidingWarranties/Myo-Intelligesture)
A library for processing raw data from the Thalmic Myo using a non-linear data pipeline.
- MyoHome** – [GitHub.com/VoidingWarranties/Myo-Home](https://github.com/JordanHorwich/VoidingWarranties/Myo-Home)
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** – [GitHub.com/VoidingWarranties/SignSight](https://github.com/JordanHorwich/VoidingWarranties/SignSight)
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

- Machine Learning
- Human-Computer Interaction Usability
- Algorithms
- Computer Graphics
- Natural Language Processing
- Data Structures