#### 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 written in Go.
- 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.
- Implemented permalink UI for feed updates on the homepage.

#### 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 serviceoriented 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  $\Delta E^* < 1$ .
- Increased the processing speed by a factor of nearly 100.

Skills

**Languages:** Go, C++, C > 5 years experience

Angular, Typescript, Python 4 years experience SQL, Swift, Scala 4 years experience 4 years experience

Software: Mercurial, Git, MacOS, Linux

# Other Projects

#### Offsite APFS Backup - GitHub.com/VoidingWarranties/Offsite-APFS-Backup

A non-destructive incremental backup utility for cloning APFS snapshots.

#### MyoIntelligesture - GitHub.com/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

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

A unique computer vision approach to automatic traffic sign recognition.

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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

Honors & Achievements

YHack - Best Use of Intel Galileo for MyoHome (Fall 2014).

 $\mathbf{HackRU}\,$  - Organizer's Choice Award for  $\underline{\mathsf{TrippingWookie}}$  (Spring 2014).

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

Rensselaer Leadership Award