

Derek W. Gonyeo

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EDUCATION	Rochester Institute of Technology - Rochester, NY B.S. Computer Science - Expected Graduation December 2016	September 2012 - Present
EXPERIENCE	Hudl - Lincoln, NE Software Engineer Intern Worked full time during the summer of 2014, and have continued to work part time during the 2014-15 school year. Worked on a project called Heimdall that received notifications via a REST API, combines similar notifications into single incidents, alerts the employee on call, and exposes a website for viewing and manipulating incidents. Integrates with Postmark, Stack Driver, SNS, Cloudwatch, and PagerDuty. Stormfrog - Victor, NY Mobile Developer Intern Worked on a game written in Objective C using the Cocos2d framework for the iPhone. Implemented visual effects in the game including rain and particle effects, some animations related to the main character, and the majority of the in-game store.	June 2014 - Present http://hudl.com May 2013 - August 2013 http://stormfrog.com
LANGUAGES	Java, Go, C, Haskell, Python, C#, Bash, Javascript	In decreasing order of proficiency
PROJECTS	Haskell CRDT Implemented a Commutative Replicated Data Type from scratch in Haskell. A CRDT is a distributed data set with weak consistency guarantees, that replicates its data set to all nodes. Pulls data from LDAP, and uses Google's Protocol Buffers to transfer data between nodes. Gained familiarity with Haskell, Protocol Buffers, and distributed concepts like the CAP Theorem. ODD - One Dimensional Display Designed and build a custom display of RGB LEDs, controlled by a Raspberry Pi. Can be controlled over the network to add and remove animations with various parameters. Animations include holding a color, displaying a rainbow, strobing, and the game of life. Some animations analyze real time audio streams to display a music light show based on music. Gained familiarity with basic circuit board design, C, ALSA, and Fast Fourier Transforms. Brandreth Statistics Created a website for accessing 20 years of entries from guest books at a friend's cabin. Allows users to search for and read all the entries, and generates various graphs based on the data. Gained familiarity with the Go language and Postgresql. CSH News Created an Android application that allows Computer Science House members to easily read posts from and write posts to an internal news service. Utilized an existing REST API built on top of NNTP. Gained familiarity with the Android SDK.	http://github.com/dgonyeo/gatekeeper http://github.com/dgonyeo/odd https://github.com/dgonyeo/brandreth2.0 http://github.com/dgonyeo/AndroidWebnews
EXTRACURRICULAR ACTIVITIES	Computer Science House Member Computer Science House Financial Director	September 2012 - Present June 2014 - Present
HONORS & AWARDS	Eagle Scout with Three Palms Third Degree Black Belt in Taekwondo	June 2011 February 2011