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

CoreOS - San Francisco, CA
Software Engineer Intern
September 2015 - Present
https://coreos.com/

Worked full time at CoreOS as an intern during the Fall of 2015, and have remained on part time since returning to school. Worked on *rkt*, a secure, composable container runtime for Linux. Created *acbuild*, a build system for creating images conforming to the App Container spec.

CloudFlare - San Francisco, CA
Software Engineer Intern
June 2015 - August 2015
https://www.cloudflare.com/

Interned at CloudFlare during the summer of 2015. Helped create *gohbase*, an open source HBase client written in Go. More information is available at: https://github.com/tsuna/gohbase.

Hudl - Lincoln, NE
Software Engineer Intern
June 2014 - January 2015
http://hudl.com

Worked full time during the summer of 2014, and worked part time during the following school year. Worked on a project called Heimdall that received notifications via a REST API, it 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.

LANGUAGES

Go, Haskell, Java, C, Python (In decreasing order of proficiency)

PROJECTS

Haskell CRDT
https://github.com/dgonyeo/gatekeeper

Implemented a Commutative Replicated Data Type, or CRDT, from scratch in Haskell. A CRDT is a distributed data set with weak consistency guarantees. 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
https://github.com/dgonyeo/odd

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
https://github.com/dgonyeo/brandreth2.0

Created a website for accessing 20 years of entries from guest books at a friend's cabin. Gained familiarity with the Go language and PostgreSQL.

EXTRACURRICULAR ACTIVITIES

Computer Science House Member	September 2012 - Present
Computer Science House Financial Director	June 2014 - May 2015
Computer Science House Root Type Person	May 2015 - Present

HONORS & AWARDS

Eagle Scout with Three Palms	June 2011
Third Degree Black Belt in Taekwondo	February 2011