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Professional Objective

To build devices and applications that enable humans to do amazing things.

Experience

Simply Measured

Software Engineer October 2013 - Present

Developed and desgined back-end platform services, including

- An Account Service, that decoupled user-related business logic from the front-end app and Salesforce APIs. The service
 manged records of over 50,000 user subscription records as well as decreased response time of the application by over
 50% on average from 2 seconds to less than a second
- An Event Publication Service, which enabled SimplyMeasured's first third-party partnership with Shift Marketing Cloud.
 The service provided a generic interface for messaging across our platform, which enabled other core services to

Created an internal devicopment tool that improved the efficency of product development by extracting and transforming data in our HBase clusters to local development formats, a process that would normally take weeks was reduced to a UNIX command line that could be executed in seconds.

Siften

Software Engineer December 2011 - July 2013

Designed, developed, and maintained all web services for Sifteo Inc. Including:

- A Game Publishing Service, which authenticated over 10,000 purchases of dozens of Sifted games
- An API Service that enabled over 3,000 users to purchase and download games through Sifteo's desktop software,
 Siften Sync
- A Factory Auditing Service, which collected and reported on quality assurance data on over 300,000 Sifteo products created at Sifteo's manufacturing center in China.

Lead measures to improve web development, such as cultivating portable virtualized environments, automating deployments, and providing continuous integration for multiple web services.

Created modern, rich-media experiences on contstrained machines with QT webkit, Javascript, and HTML5 technologies

Developed an OSC client implementation that enabled Sifteo Cubes to communicate with Digitial Audio Workstations and other OSC enabled devices.

Kelly Dunn LLC

Freelance Software Engineer October 2011 - Presen

Freelance Web Development and Software Engineering primarily within the domain of creating audio-visual utilities and web services that enabled musicians to distribute their music across the web. Some experimental work with control interfaces, specifically with MIDI controllers.

Originate

Software Engineer June 2010 - October 2011

Built and maintained various web-based projects ranging across various technologies and domains, including e-commerce, paming, and mobile networks. Worked in small, intimate teams with quick turn-over rates.

Responsibilities included estimating with clients, executing on desired features, and delivering a final product

University of Washington

Teaching Assistant August 2008 - August 2010

Instructed undergraduates in the following areas of Computer Science

- Syntax / Control Structures
- Data Structures / Runtime Analysis
- Object Oriented Programming
- Weh Developmen
- · MVC / Data Abstraction
- Databases

l also held weekly office hours, bi-weekly courses, and graded programming assignments and tests

Programming Languages	Proficient Go Ruby C	Knowledgeable Rust C++ Clojure Python	Exposure Lush / CommonLisp Lua / Moonscript
Protocols	Proficient HTTP / HTTP2.0 SSL / TLS MIDI OSC	Knowledgeable USB TCP / UDP RTP / RTCP RTSP DLNA	Exposure SPDY DMX / RDMX
Tools and utilities	Proficient Emacs Git Linux (Arch / Debian) Vagrant / Ansible / Chef PostgreSQL / MySQL Nginx Jenkins AMQP	Knowledgeable Apache Redis Selenium gdb LLVM	Exposure Nagios Kibana Elastic Search
Notable Projects	golang-geo (https://github.com/kellydunn/golang-geo) - Geographical calculations in golang. crunchy (https://bitbucket.org/kellydunn/crunchy) - Additive Wavetable Synthesizer in Rust. go-art (https://github.com/kellydunn/go-art) - an implementation of Adaptive Radix Trees (ART) in golang. mumble (https://github.com/kellydunn/mumble) - a MIDI multiplexer for monomes.		
Education	University of Washington Bachelor of Arts in Japanese Linguistics September 2006 - June 2010		
Volunteer Work	Railsbridge Volunteer Instructor and Organizer October 2010 - November 2011 Instructed and organized weekend workshops that enabled participants to create web applications using the Ruby on Rails framework. Events were held in the spirit of advocating and enabling gender diversity in technology.		
Personal	Musician Homebrewer Rock Climber Painter Open Source Contributor		