

## SUMMARY OF QUALIFICATIONS

A Software Engineer, specializing in the design and implementation of performant, fault tolerant, distributed services.

## WORK EXPERIENCE

### *Software Engineer*      **Sept 2015 – Present**

#### **DramaFever / Warner Bros.      Remote**

- Maintained and expanded upon a legacy Django web application.
- Led a project to systematically verify hundreds of configuration settings preceding a new project launch.
- Developed Go microservices for serving up news articles and video ratings.

### *Software Engineer*      **Oct 2013 – Sept 2015**

#### **Backstop Solutions Group      Chicago, IL**

- Maintained and expanded upon a legacy Java web application.
- Built performance testing rigs to ensure our infrastructure exceeds our anticipated needs.
- Served in an on-call rotation to field inquiries and bugs from support, and ensure 24/7 uptime.
- Built Clojure service to rapidly index, encrypt, and store LOBs in Amazon S3.
- Contributed to the main Clojure AWS S3 library.
- Presented an introduction to Go to the engineering team. “[O]ne of the best live coding exercises [a coworker had] ever seen.”

### *Software Developer*      **July 2013 – Oct 2013**

#### **Milyli, Inc.      Chicago, IL**

- Created a Return on Investment Calculator for a SAAS provider, to help the provider demonstrate to potential clients the savings they can expect. Written in C# .Net MVC.

### *Software Developer*      **March 2013 – June 2013**

#### **Cardlytics, Inc.      Atlanta, GA**

- Designed and led development of a system to obfuscate the referrer information when an online banking user clicks a link taking him or her away from the bank website. Designed to handle 150+ clickouts per second with 99.9% uptime. Written in Python.
- Took over development of a system to follow web beacons for online banking users. Optimized it to handle 550 beacons per second (up from 30 per second). Written in Python.
- Drove adoption of a message queue architecture.

### *Implementation Engineer*      **January 2012 – March 2013**

#### **Cardlytics, Inc.      Atlanta, GA**

- Designed and implemented a high-availability infrastructure for Redis in support of a system that processes over 1000 card authorizations per second.
- Led effort to implement this real-time messaging system at Bank of America. Designed a system spanning over half-a-dozen servers across two data centers.
- Created and modified SQL Server Import Services (SSIS) packages to import and export gigabytes of bank account and transaction data to and from MS SQL Server databases daily.

### *Configuration Manager*      **May 2010 – January 2012**

#### **Cardlytics, Inc.      Atlanta, GA**

- Tracked specific versions of the Cardlytics Offer Presentation System and supporting tools at fifteen banks to identify each version's features and defects on an internal Wiki.
- Designed and built thirty production, non-production, and ad hoc development environments, including IIS and Microsoft SQL Server components.
- Built each software release of our Offer Presentation System for client banks, including IIS sites, release notes, installation instructions, Javascript tweaks, and stable, idempotent, and revertible T-SQL scripts.

## ***IT Support Specialist* June 2009 – May 2010**

**Cardlytics, Inc. Atlanta, GA**

- Automated desktop and laptop imaging and deployment process using MS ImageX and MS WinPE, improving computer build rate 500%.
- Maintained a desktop and laptop computer reserve used to issue fifty new staff workstations, up to date credentials in Active Directory, new email accounts, and a sheet of instructions ready for new employees on their first day, while coordinating with six hiring managers.
- Set up and provided 24/7 support for seventy local and remote end users, twenty physical servers, and fifty virtual servers.

## ***IT Contractor* September 2007 – July 2009**

**Perimeter Search Group Dunwoody, GA**

- Provided technical support for ten Windows workstations and one Windows server, and performed virus removal, system restores, and email account maintenance.
- Designed, tested, and implemented an inexpensive backup system based on Bacula.

## **EDUCATION**

***Bachelor of Science (B.S.)* May 2012**

**Georgia Institute of Technology (Georgia Tech) Atlanta, GA**

- **Major:** Computer Science – Networks & Human-Computer Interaction

## **ASSOCIATIONS**

**Southside Hackerspace: Chicago, *Board Member* January 2014 – Present**

**WREK Radio, *Assistant – Chief Engineer* January 2008 – December 2009**

**Elon Association for Computing Machinery, *Treasurer* December 2005 – December 2007**

## **ACADEMIC PROJECTS**

**Senior Design: Mental Health Clinician Tracking System August 2011 – December 2011**

- Designed and created a Java-based, standalone Clinician Support Tool client that allowed twenty mental health clinicians in remote areas of Liberia to document patient encounters.
- Installed, configured, and maintained a Rackspace server and source controls, managed Client and Server builds, and developed the client application using Java and Netbeans.

## **AWARDS AND ACCOLATES**

**Honorable Mention: Cardlytics Innovation Contest Nov-Dec 2012**

- Proposed a method for targeting offers to customers using Hadoop.

## **RESOURCES**

- Website: [Agocs.org](http://Agocs.org)
- Github: <https://github.com/agocs>
- Twitter: [@agox](https://twitter.com/agox)

## **TECHNICAL SKILLS**

- **Programming Languages:** Java, C, C#, Python, Ruby on Rails, T-SQL, LaTeX, Go, Clojure
- **Databases and Data Stores:** Microsoft SQL Server, Oracle, Redis, Hadoop, MongoDB, RabbitMQ