

# Drew Kerrigan

571.296.7081

drew@kerrigan.io

## Summary

Experienced and high performing software engineering generalist, driven by curiosity and the desire to write quality code used by millions of people. Interested in solving hard problems, learning new technologies, and open-source software.

## Professional Skills

### Languages

- Golang
- Erlang / OTP
- Elixir
- Python
- C/C++
- Java

### Specialties

- Consulting
- Software Development
- System Architecture
- Performance Benchmarking
- Infrastructure Automation
- Data Modeling

### Technologies

- Distributed Systems
- SDN
- Apache Mesos
- Data Pipelines
- Containers
- Messaging Queues

## Previous Employment

### Mesosphere AUGUST 2016 - PRESENT

#### SOFTWARE ENGINEER - SYSTEMS AND NETWORKING

Working on the engineering team with a focus on networking and service discovery components of the DCOS product. Software defined networking / infrastructure make up the majority of the networking team's responsibilities. Projects include Marathon-LB, Mesos-DNS, Navstar, and Spartan for service discovery, DNS propagation and management. Lead architect and developer Edge-LB, a distributed layer7 load balancer built on DC/OS and Apache Mesos as a framework.

**Utilizing:** Golang, Erlang/OTP, Python, Java, C, Lua, Mesos, DC/OS

**Notable Projects:** Edge-LB (Closed-Source), [Mesos-DNS](#), [Navstar](#), [DC/OS-adminrouter](#)

#### SOLUTIONS ARCHITECT

Worked on-site and remotely with DC/OS customers performing a variety of professional services including system architecture design, software development, distributed systems and Mesos consulting. Delivered services to DC/OS / Mesos users with broad backgrounds in the financial, gaming, telecom, and media / entertainment industries. Employed knowledge and experience with containers, data pipelines, messaging queues, network architecture, and system administration.

### Basho Technologies MAY 2012 - AUGUST 2016

#### PROFESSIONAL SERVICES ARCHITECT

Delivered professional services and architecture consulting with a focus on large scale system architecture and backend development. Supported full product lifecycles for Basho products, community driven projects, and client uses-cases / applications. Became very familiar and proficient with a variety of technology stacks.

While not working with clients, most time spent on research and development of new applications to improve user / developer experience with Riak KV, Riak Cloud Storage, and Riak Time Series.

**Utilized:** Erlang/OTP, Golang, Mesos, Ruby, Node.js, Python, Java, Hadoop, Riak, Riak CS

**Notable Projects:** [Riak Mesos Framework](#), [Riak Explorer](#), [Riak Elixir Client](#), [Riango](#), [Nagios HTTP JSON](#)

#### CONSULTING ENGINEER

# Drew Kerrigan

571.296.7081

drew@kerrigan.io

Client facing software/devops consulting from architecture to deployment and everything in between. Also contributor to open source software projects as well as many projects internal to Basho. Focused on distributed systems and building data solutions for difficult problems. Diving into new technologies and platforms and quickly becoming proficient in fast changing environments according to customer needs and project requirements.  
**Utilized: Erlang/OTP, Ruby, Node.js, Python, Java, Riak, Riak CS**

---

## **Stella & Dot** MARCH 2011 - MAY 2012

SENIOR SOFTWARE ENGINEER

Worked under the lead architect during the complete re-architecture of the production site of a complex direct sales e-commerce application. Was responsible for large pieces of a multi-tier system with functionality spanning the central API layer integrating with internal and external services, e-commerce, and writing RESTful services to tie them all together. Also worked with multiple vendors to integrate services.

**Utilized: Amazon Web Services, E-Commerce Platforms**

---

## **Lockerz, Inc.** NOVEMBER 2009 - MARCH 2011

LEAD SOFTWARE ENGINEER

Played an integral part in the complete re-architecture of the production site of a highly scalable social network. Helped architect and implement the middle to backend tier using PHP (CodeIgniter). Owned the core services project as part of the platform team which integrated with the large scale data access layer (Java over ICE) as well as multiple external APIs. Self appointed security auditor of our code due to endless attempts by hackers to get around user interfaces and gaming our system. Gained experience in e-commerce (Magento), media players (images and videos), and social network application engineering.

**Utilized: Java, E-Commerce Platforms, ActionScript, Amazon Web Services**

---

## **Swift** JUNE 2007 - NOVEMBER 2009

SOFTWARE ENGINEER

Implemented incremental enhancements given customer input for several products on varying frameworks. Designed and implemented multiple data driven web applications including a Scrum planning system that is still being used.

**Utilized: Emerging MS technologies, Java, Oracle**

---

## **Schrumm Solutions** JUNE 2009 - NOVEMBER 2009

SOFTWARE ENGINEER

Worked alone on ASP.NET / C# web applications. Created a SQL Server Reporting Services web interface end to end.

**Utilized ASP.net with C# backend, SQL Server, jQuery AJAX with RESTful endpoints**

---

## **Firststring LLC** SEPTEMBER 2008 - JANUARY 2009

DEVELOPER

Worked remotely with a small team of engineers to rapidly develop new features for a growing sports social networking site.

**Utilized PHP, Ruby on Rails, MySQL, jQuery AJAX with RESTful endpoints**

---

## **WVU Facilities Information Systems** SEPTEMBER 2006 - MAY 2007

# Drew Kerrigan

571.296.7081

drew@kerrigan.io

## WEB APPLICATION PROGRAMMER

Designed and implemented (end to end) a large dynamic form system to replace incident and case report paper based system for the WVU Department of Public Safety.

**Utilized: Oracle application and database technologies**

---

## QSS Group Inc. MAY 2005 - AUGUST 2006 (SPLIT)

### PROGRAMMER / ANALYST

Gained secret security clearance working at the USCG Operations Systems Center. Modernized a mission critical website for a Coast Guard business system. Designed and implemented data driven Oracle Forms.

**Utilized: Oracle application and database technologies**

---

## Geospatial Development Center MARCH 2005 - MAY 2006 (SPLIT)

### RESEARCH ASSISTANT / PROGRAMMER

Designed and implemented 3D mapping software using OpenGL along with the .NET framework. Redesigned the website's infrastructure so that it is data driven PHP.

**Utilized PHP, C#, C++, and OpenGL**

## Education

### West Virginia University 2003 - 2007

COLLEGE OF ENGINEERING

Bachelor of Science in Computer Science