Drew Kerrigan

571.296.7081

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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

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

Specialties

- Software Development
- System Architecture
- Infrastructure Automation
- Networking / Load Balancing
- Data Modeling
- Distributed Systems
- API Design

Technologies

- LiveView
- Kubernetes
- Kafka
- Nifi
- Minio
- Elastic
- Containers

Previous Employment

Prowler JULY 2023 - PRESENT

PRINCIPAL AND FOUNDING SOFTWARE ENGINEER

Led the cloud / platform team at Prowler, fully responsible for the Prowler SaaS and infrastructure that it runs on, including integrations with 3rd party services like Stripe and AWS Marketplace for billing and recurring payments. Ensured the application was performant and scalable, using Oban jobs for async workloads and leveraging PostgreSQL's Row Level Security for tenant data isolation. Another contribution was coaching the team on best practices for Elixir, Phoenix, and LiveView, helping to elevate overall code quality.

Utilized: Elixir, LiveView, Oban, PostgreSQL, Python, Terraform, AWS

Notable Projects: [Prowler Cloud](#)

Verica Inc. APRIL 2021 - JULY 2023

PRINCIPAL SOFTWARE ENGINEER

Led the implementation of a Cloud Security SaaS using the Phoenix web framework (Elixir). Prowler SaaS runs security audits using the open-source Prowler AWS security scanning tool on the backend. Lead the complete re-architecture of Verica's Continuous Verification Platform (CVP) product, re-writing it in Golang from the previous Python implementation. Implemented a scalable Kafka load-testing and feature verification framework, as well as several Kafka-based verifications to ensure clusters are performing as expected at runtime.

Utilized: Elixir, Golang, Python, Terraform, AWS, Kafka, Kubernetes

Notable Projects: [Elixir-Based SaaS: Prowler Pro](#), Continuous Verification Platform (Closed-Source)

Institutional Shareholder Services MAY 2018 - APRIL 2021

LEAD SOFTWARE ENGINEER - INNOVATION LAB

Lead a small team responsible for architecting and deploying an Apache Mesos based data platform for container orchestration, machine learning pipelines, data services, and GitOps. Wrote

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automation software, including CI/CD pipelines, Ansible, and Mesos frameworks to deploy and manage Kubernetes clusters, databases, and several internal applications. Open source projects include a Apache Nifi processor for the Stanford NLP library: [Blog Post: Augmenting Data in Pipelines with NLP](), and an Apache Mesos framework to orchestrate the deployment of Ethereum blockchain clusters: [Blog Post: Ethereum on DC/OS]().

Utilized: Erlang/OTP, Golang, Python, Java, Solidity, Node + ReactJS, Kubernetes, Mesos, DC/OS, Riak

Notable Projects: [Mesos Framework: dcos-ethereum](), [Mesos Framework: dcos-besu](), [Nifi Stanford Core NLP Processor]()

Mesosphere AUGUST 2016 - MAY 2018

SOFTWARE ENGINEER - SYSTEMS AND NETWORKING, SOLUTIONS ARCHITECT

Worked on the engineering team with a focus on networking and service discovery components of the DC/OS (Datacenter Operating System) 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. 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.

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

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

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. 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: Elixir, 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]()

Stella & Dot MARCH 2011 - MAY 2012

SENIOR SOFTWARE ENGINEER

Lockerz, Inc. NOVEMBER 2009 - MARCH 2011

LEAD SOFTWARE ENGINEER

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Swift JUNE 2007 - NOVEMBER 2009

SOFTWARE ENGINEER

Education

West Virginia University 2003 - 2007
COLLEGE OF ENGINEERING

Bachelor of Science in Computer Science