

Sean Kibler

An experienced software engineer that brings 16 years of total experience with over 14 years in Ruby on Rails and over 10 years architecting applications in the cloud, with the majority of that experience in AWS. I most effectively contribute to teams by implementing IaC, improving performance, adding observability, automating processes, and migrating applications to scalable infrastructure.

Key Competencies

Ruby / Ruby on Rails, Javascript / Typescript, PHP, Clojure
AWS, GCP, Datadog, Cloudflare, Docker, Kubernetes
Ansible, Terraform, Bash, CircleCI, Python, Jenkins, Rundeck
PostgreSQL, MySQL, Elasticsearch / OpenSearch, Redis

Professional Experience

Wastebits - Senior Site Reliability and Software Engineer

Feb 2020 - Jun 2024

Collaborated with a small team of developers and product manager in Scrum/Agile methodology, participating in sprint planning, daily stand-ups and retrospectives.

Migrated multiple Ruby on Rails applications to scalable infrastructure using Ansible, Terraform Cloud, Amazon ECS, and CircleCI to improve application resiliency, dynamically scale to load, and reduce infrastructure costs.

Developed a JSON API with event-driven webhooks and OAuth authentication to enable custom integrations and improve customer onboarding experience.

Improved the response time of the most utilized search endpoint by 87% reducing latency from over 4 seconds to under 500ms using Elasticsearch to dramatically improve user experience.

Implemented monitoring, observability and alerting using AWS CloudWatch, Datadog and Atlassian OpsGenie to alert team of degradation or disruption to improve incident response.

Guided the development of a circuit breaker design to improve application resiliency and protect against synchronous reliance on unreliable 3rd party API.

Implemented WAF to protect application servers from malicious incoming traffic and improve security posture.

Wrote idempotent asynchronous data imports to efficiently import data for customer onboarding.

Implemented production traffic mirroring system using AWS VPC Traffic Mirroring, Go, and Terraform that assisted in performance tuning and debugging against live production data.

Implemented Wireguard VPN to enable secure access to protected network.

Developed Infrastructure as Code with Terraform and Ansible to build full application infrastructure to ensure business continuity in case of region failure.

Automated a process using Ansible to refresh staging environment data with anonymized production data.

Maintained operating environment for company website written in PHP, spearheading OS and PHP upgrades, security patches and performance tuning.

Developed templating for multiple features enabling customers to customize their data schema.

Illuminate Education - DevOps Engineer

Oct 2017 - Feb 2020

Migrated a 1.5M requests/day PHP and VueJS application to scalable infrastructure using AWS Auto-Scaling, Ansible, Terraform and Git-based deployment via CircleCI resulting in a 30% annual cost reduction even under a 60% increase in request load.

Migrated JasperReports BI reporting software to Kubernetes running on GCP (GKE) leading to a substantial increase in stability and scalability, streamlined SDLC with automated builds, increased uptime to 99.9999% and reduced application boot time by 60% for faster deployments.

Automated numerous tasks using Rundeck as a UI for Ansible playbooks to enable developers to perform some administrative tasks and maintenance such as; manual cache management operations, application deployments, and database migrations.

Learning Egg - Software Developer

Jun 2014 - Oct 2017

Integral contributor to a number of Clojure applications comprising a product built with a service-oriented architecture including; authorization, data, and scoring services. The product ultimately led to an acquisition by Illuminate Education.

Developed an API for custom integration of our webcam-based assessment grading and tracking application, implemented with plain Javascript, WASM, and transpiling internal C++ APIs into Javascript using Emscripten.

Extended features of an online testing and paper assessment Ruby on Rails web application, enhancing user and developer experience with features like custom reporting and bindings for Kendo frontend framework.

Provisioned and maintained Debian servers and application deployments in AWS.

Electronic Data Payment Systems - Software Developer

June 2013 - June 2014

Extended and maintained a Ruby on Rails CRM with direct integration to an in-house call center.

Maintained and enhanced a data integration with merchant application PDF to expedite and simplify merchant application process with card issuers.

Maintained Asterisk VOIP software and integration with CRM application to record phone calls.

YourPreps - Owner / Developer

Mar 2012 - May 2013

Built responsive, mobile-first Ruby on Rails web app to manage disaster preparedness inventory.

Provisioned and maintained application servers in AWS.

Dix Communications - Web Developer

Jan 2011 - Jun 2012

Built a Ruby on Rails CMS system that powered digital news websites and a digital ad delivery via integration with OpenX for newspapers in Ohio.

Collaborated with small team of developers and VP of product using Kanban.

Managed deployment process and application infrastructure in AWS.

WRL Advertising - Web Developer

Aug 2008 - Jan 2011

Part of a collaborative team that built a Ruby on Rails CMS and e-commerce system deployed to many customers.

Consulted with sales reps to quote, plan, and deliver on customer requirements and prepare RFPs.

Built and maintained deployment process for CMS sites using Capistrano.

Maintained a mixture of co-located and on-premise servers and networks that powered company email, network shares, web, and database servers.

Built an application in Ruby on Rails with SMS and phone integration with CDYNE that enabled subscribers to record an audio, text, or video message to be delivered in the future.

Education

Associate in Applied Science – Stark State College of Technology
2006 - 2008

References

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