Richard Genthner

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Summary

Creative geek with roots in the open source movement, an entrepreneurial mindset and a passion for delivering value by developing maintainable infrastructure.

Experienced in DevOps management and custom Web Application development. I focus on scalability of infrastructure and web applications from the architecture side. I have helped multiple organizations go from 100,000 users a month to 500 million monthly active users. I have written custom web services for us government projects to consulting firms. There's nothing I'm not willing to tackle, my tooling focus is on containers, kubernetes, and cloud. I'm a big voice in many open source projects.

Experience

Oddball
WASHINGTON,DC

Lead DevOps Engineer
Jul 2020 – Present

Working on various Cloud projects for the US Government clients. Building out proper AWS GovCloud infrastructure practices.

Makerbot Industries
BROOKLYN, NEW YORK

Director of DevOps Engineering
Jul '18 – Jun '20

Working on building a strong DevOps Team that is cross-team functional. Handling hiring of members on the DevOps Team, Software Teams, and Web Teams. Working towards a 100% deployment strategy that is hands-off and allowing for shipment of code not once every 14 days but allowing engineers to ship code multiple times a day. Working with various teams about redefining our IoT strategy and the tooling around that. Also driving kubernetes in multiple clouds but also with multiple edges. I'm also tasked with architecture design for new services from various teams and making sure we are using the best technology for the use case. I work very closely with the product team to make sure they focused on measurable features. I work with Leadership to develop and define SLO's and then turning them in SLA's which teams can be held accountable for.

- Implementing and deploying Kubernetes in multicloud with multiple edges.
- Deployment Automation analysis using canaries with Spinnaker
- Leading the switch from in-house build IoT to managed IoT solutions
- Leading us to use and be more Cloud Native by breaking things down to Microservices
- Developing Architecture plans for existing services for improvements and new services
- Handling the companies budget for Cloud Infrastructure and Cloud Based Services used by Engineering
- Migrated from AWS to GCP with less than 6 hours of downtime of a live infrastructre and reduced cloud operating costs by 78%

Nobleboro Fire and Rescue
NOBLEBORO, ME USA

Fire Chief / EMA Director
January 2020 - present

Managing the department rescues while working with the town government officials. Over seeing 2 fire stations, 15 Firefighters, Training, EMS, EMA and daily operations of the department. Managing the budget while increasing the rapid response of the members of the department. Over seeing the EMS services the first responders provide to the towns people. Over seeing the fleet maintenance of multiple pieces of equipment and over seeing the management of 3 junior officers. Taking the Town budget from $89,000 to $120,000 year one in office, presented a 5 year plan to get the department budget up to $234,000. Over seeing of grant writing and management of the grant rewards to the department.

Makerbot Industries
BROOKLYN, NEW YORK

Senior Lead DevOps Engineer
Aug '17 – Jul 2018

Working to streamline processes, development of workflows and deployment strategies. Working on migrations from single cloud to multi-cloud with Kubernetes. Leading security and deployment auditing. Working with leadership to make sure we are thinking about deployability and scalability. Working centralize and make more IoT tooling that scalable and usable. Working with tool path and firmware teams make sure we are using the optimum frameworks latest security practices are being followed. Automating systems and working on scaling databases and PHP applications. Worked on moving from AWS to multi-cloud with Google Cloud and AWS. Handling security concerns at the host,

printer, and Infrastructure as Code level. Designing an architecture that can live on multiple clouds and scale. Migration off ECS to Kubernetes to make the company agnostic on the cloud provider. Streaming lining deployments to a truly hands-off approach with checks and balances.

- Scaling the infrastructure in AWS/GCP using Kubernetes.
- Implementing and deploying Kubernetes in multicloud.
- Deployment Automation and pipelines using CircleCi and Spinnaker.
- Leading the migration from AWS to GCP services and building somethings in multi-cloud
- Implementing Spinnaker and CircleCi for continuous delivery to multiple Kubernetes clusters in multiple clouds.

When I Work MINNEAPOLIS, MN
Senior DevOps Engineer *Feb '16 – Aug '17*

Automating systems and working on scaling databases and PHP applications. Worked on moving off Linode to AWS. Writing various tools and heading up the migration from chef controlled servers per service to Docker control and deployed services. Writing Chef provisioning tools, cookbooks and other utility. Also working with CI/CD tools such as Jenkins for automations deployments for Applications written by developers and infrastructure changes being deployed by Chef with CI/CD integration. Handled the deployment of SSO for third part tools and centralized logging with Loggly and Logstash. Managing MariaDB Galera Clusters in Multi-AZ and Multi-Region. Handling security concerns at the host and Infrastructure as Code level.

- Worked with Chef-provisioning and the migration from chef to terraform
- Scaling the infrastructure in AWS using terraform and docker
- Implementing Kubernetes in a AWS environment

Stable Transaction MAINE
Founder *Dec '14 – Jun '16*

Founder of an online local government payment service. Providing access to local government data and accepting payments for local tax bills and other payments.

CenturyLink Cloud ST. LOUIS, MO
Senior Systems Engineer *Sep '15 – Jan '16*

Front Lines between CTL's Engineers and Enterprise IT Engineers of our clients. Working closely with other engineers from different departments to get the best possible outcome for the client

Flowroute SEATTLE, WA
DevOps Engineer *Oct '14 – Feb '15*

Worked with planning migration to cloud from current private cloud. Worked with Salt Stack for handling deployments. Developed tools using Flask and Python

Symplicity ARLINGTON, VA
Senior Systems Administrator *May '09 – Sep '15*

Worked in a three-man team to manage all servers and networks. Worked closely with cluster file systems such as GPFS and Ibrix. Experience with SAN configurations and lun assignments. Network device configurations such as wireless access points, firewallâĂŹs, routers, servers and workstations. I handle web application development for status monitoring, Work with a team to plan and development system administration web applications that handle cron job administration, virtual host creation using web services and managing of xen/kvm/vmware hosts, and virtual machine images. Handle Data center services with my team. I manage the companies FreeSwitch PBX server, which I wrote a custom rest api for with complete database driven dial plan.. I manage all new server deployments using kickstart and handle configuration deployment with puppet/chef/salt stack. Managing an LXC infrastructure and Datacenter services and deployments.

- Handle datacenter build out and scaling.
- Developed a VoIP phone system for the use for POTUS for processing faxes.

Please refer to my Linked-in profile for a more complete list of work experiences along with recommendations.

Education

Rochester Institute of Technology ROCHESTER, NEW YORK
Bachelor degree in Information Technology *2004 – 2007*

Focused on open source technologies and their effects on large scale deployments, and the semantic web technology stack. Wrote a Lot FreeBSD ports from linux projects.

Skills

Technical expertise: Software design and implementation, with(in) a team. Big fan of Agile methodologies (Scrum and Kanban), automated deployment (Capistrano) and continuous integration (Hudson/Jenkins/Spinnaker). Enjoys writing Ruby/Python/C++, yet flirts regularly with go lang. Solid knowledge of web technologies: HTML+CSS, XML, RDF, REST, SOAP. Linux administration skills: Bash, Apache, MySQL, PostgresSQL, virtualization/cloud (Vagrant, OpenVZ, VMware, KVM, Xen and EC2, Google Cloud), datacenter automation (Ansible and Chef), Nginx, spinnaker, Kubernetes, Docker, GoLang, Cloud Native.

Interests

Non-exhaustive and in alphabetical order: art, cryptography, Go (board game), history, music, open source, philosophy, being community focused and giving back to the community which I volunteer in, Fire Fighting.