Michael Roth
Site Reliability Engineer

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About Me

🌮 Hi! I'm Mike and I'm a Site Reliability Engineer. I use my well-honed skills to build solutions, improve companies' overall efficiency, performance, and security. Recognized as an efficient and creative professional with solid multitasking capabilities. I'm a skilled troubleshooter comfortable managing systems and projects in a range of IT environments. Aside from automating everything, I also have experience in making software and web apps that are still heavily used today. Also since I have worked at a number of companies I have gained a lot of valuable teamwork and leadership skills.

I am most skilled in: `AWS` and `Eating Tacos!`

Experience

Autodesk
Principal Infrastructure Engineer
Dec 2021 - Present
autodesk.com

Kubernetes clusters everywhere!

- Responsible for availability, performance, efficiency, monitoring, emergency response, and capacity planning for legacy and new services.
- Managing Kubernetes clusters on the core infrastrcuture team.
- Automating Kubernetes applications and workflows.
- Sticking to GitOps and Infrastructure as code because this is the way.

Lemonaid Health
Site Reliability Engineer
July 2021 - Dec 2021
lemonaidhealth.com

To break down barriers that limit people from getting quality healthcare, empowering them to live happier lives.

- Responsible for availability, performance, efficiency, change management, monitoring, emergency response, and capacity planning.
- Sticking to Infrastructure as code.
- Making sure we stick to our SLA.
- Working with security to make sure we are compliant.
- Automating all the toil.

Autodesk
Principal Site Reliability Engineer
February 2016 - May 2021
autodesk.com

Make anything but make it immutable!

- Developed automation processes to enable teams to deploy, manage, configure, test, scale and monitor their applications through the use of tooling or scripting reducing the time to get features in production.
- Improved automated test and simulation frameworks.
- Built and deployed Docker containers to break up monolithic applications into microservices, improving developer workflow, increasing scalability, and optimizing speed.
- Wrote custom monitoring plugins and integrated monitoring methods into deployment processes to develop self-healing solutions.
- Infrastructure as code: Every project I worked on was fully automated and could not be manually set up.
- Owned production alerts and acted as the point of contact for all infrastructure or application incidents.
- Saved the company millions of dollars by removing unnecessary resources in AWS and rightsizing AWS resources.
- Collaborated with peers on the development of new automation tools and services used in the management and maintenance of various virtual environments.
- Consulted and contributed to system architecture.
- Developed and automated standard operating procedures around common failure scenarios.
- Monitored, analyzed, and reported performance statistics for cloud-hosted environments and applications.
- Developed application features, improvements.
- Wrote clean, well-documented, and resilient code.
- Managed and maintained databases for MySQL, Postgres, and DynamoDB.
- Maintained, and scaled infrastructure for QA, Dev, Stage, and Production environments for 5 million monthly users.

Taos
DevOps Engineer
September 2014 - February 2016
taos.com

Out with the old, in with the new.

- Worked at Autodesk on their SAAS team.
- Converted their monitoring system, metrics, logging, and improved communication throughout different teams.
- Deployed and maintained a handful of company applications.
- Helped engineers with any automation issues.

Advantis Global
DevOps Engineer
April 2014 - September 2014

Different colored apples everywhere.

- Assisted development team on creating an internal tool that monitored Apple's entire phone support system.
- Created a Chef Server in a tight environment from source so it would run in production.
- Assisted different departments on, on-boarding their projects.

OneHealth Solutions
Junior DevOps Engineer
Jan 2011 - September 2013

The DevOps philosophy was bestowed upon me here.

- Created and managed security systems for the Building, Network, Workstations, and Servers.
- Tested and troubleshot hardware, software, and network connectivity issues.
- Documented installations, application/system maintenance, hardware devices, and end-user support.
- Managed, defined, upheld Service Level Agreements, and Enforced HIPAA compliance.
- Performed basic workstation training and support for all employees.

Mellmo
QA Engineer
2008 - 2010
roambi.it/en/

If you can think outside the box, you can find bugs for days.

- Tested web and mobile applications.
- Supported clients with software issues.
- Built multiple virtual Linux servers using different distros to test enterprise application builds.

Technical Skills

Here is a list of some of my skills:

- **Command Line Ninja!**
- **CI/CD:** Github Actions, Jenkins, and RunDeck.
- **Cloud Platform:** AWS
- **Operating Systems:** Ubuntu, Debian, Centos, and Red Hat.
- **APIs:** AWS, Slack, Jira, Confluence, ServiceNow, and PagerDuty.
- **Languages:** Bash, Ruby, Python, and Go.
- **Infrastructure as code:** Boto3, Terraform, Cloudformation, AWS CDK, and Elastic Beanstalk.
- **Configuration Management:** Chef/Chef Zero, Habitat, Packer, and Capistrano.
- **Testing:** Pytest, Selenium, Test-Kitchen, Vagrant, and Inspec.
- **Data Science:** Pandas
- **Containers:** Docker, ECS, and Kubernetes.
- **Serverless:** Lambda
- **Web/Application Servers:** Apache, Nginx, Passenger, Puma, Unicorn, Flask, Quart, and Tomcat.
- **Databases:** MySQL, PostreSQL, and DynamoDB.
- **Message Broker:** RabbitMQ
- **ElastiCache:** Redis
- **Security:** LDAP, AuditD, OpenVas, Rkhunter, Chkrookit, Nexpose, Snort, Squirt, and ClamAV.
- **VCS:** Git and SVN.
- **Web Frameworks:** Rails, Jekyll, and Drupal.
- **System/Infra Monitoring:** ELK Stack, NewRelic, Nagios, Sensu, CloudWatch, Splunk, God, Monit, Grafana, and PagerDuty.

Certifications

- **Coursera - Site Reliability Engineering: Measuring and Managing Reliability**
- **CompTIA - Security+**
- **CompTIA - Project+**
- **CompTIA - A+**
- **CIW - Web Design Specialist**

A Little More About Me

Aside from my interests in work some of my other interests and hobbies are:

- 🦉 Arduinos
- 🌱 Gardening
- 🍳 Cooking
- 🚗 Cars
- 🎮 Street Fighter