MATTHEW KRUSE

Devops, Systems, FullStack Engineer & Professional Problem Solver

📞 (847) 886-9953

✉ contact@matthewkruse.com

🌐 www.MatthewKruse.com

📍 NW Suburbs of Chicago

I am a motivated IT professional with the desire to learn and grow with the industry. I'm a team player who's accustomed to working in a fast paced environment. I possess deep knowledge in web application development and architecture with experience in server administration and database management.

WORK EXPERIENCE

Senior Site Reliability Engineer   Life360 | September 2021 - Present

Systems Engineer   Perceptyx | July 2020 - September 2021

Joined Perceptyx via the acquisition of the Kantar Employee Insights division. Ensured site reliability of the Kantar infrastructure until EoL and facilitated migrating clients onto the Perceptyx platform.

Wrote custom Terraform modules to support the initial design of a new AWS network infrastructure. Leveraging multi-region transit gateways, cross-account peering. Designed routing tables in conjunction with a security VPC to ensure all North/South traffic is inspected by PaloAlto firewalls.

Configured and set up additional monitoring tools, such as DataDog APM and Splunk. Provided cost analysis and feature breakdown for migrating all monitoring/alerting to DataDog. Conducted R&D on leveraging Prometheus along with Thanos as means of system monitoring and alerting via alert manager.

Supported our engineering staff, recommended and implemented solutions to help support their day-to-day work

Root cause analysis for various production issues, ranging from session race conditions, intermittent network outages, application issues due to user behavior.

Conducted standard maintenance with the on-prem servers.

Provide direct technical client support. Would host conference calls to review technical requirements or troubleshoot issues.

Leveraged SaltStack as primary means of supporting and maintaining the entire infrastructure. Developed custom salt states and pillars to modularize functions and roles.

Managed and maintained nginx load balancer configuration.

Senior Software Developer   Kantar | July 2013 - July 2020

Configured GitLab and Implemented CI Pipelines, created a streamlined process from committing, building, to deploying code effortlessly into production without being prone to human error.

Helped our system administrators with the process of upgrading our environments (prod, uat and dev) to be more modern, scalable and stable. I had helped explore the use of docker along with orchestration tools (ansible/swarm/rancher/kubernetes).

Migrated our developers to Vagrant for local development.

Integrated more DevOps/Agile methodologies within our team. Such as switching to GIT as our SCM and training coworkers on how to follow the GIT-FLOW branching models.

Adapted our application to use SAML for user authentication. From the initial design/discovery, system configuration and deployment. This required coordination between myself and our onsite system administrator.

Designed and built our current real-time dashboard reporting offering to fit the needs of our existing clients, as well as future clients. I built the front end UI (Angular2), but also helped design the underlying technology that we used to make it successful. I was able to introduce the use of ElasticSearch to create an exceptionally fast search/filtering across our client's dataset. I've had a major role in the elastic document

CERTIFICATIONS & TRAINING

AWS Certified Developer
2019

ElasticSearch Developer Bootcamp
2016

pfSense Fundamentals and Practical Application
2015

SKILLS

Technical

Typescript/JavaScript/Angular

Python/PHP/Shell

Node.js

MySQL/ElasticSearch/PostgreSQL

Redis/RabbitMQ/Memcached

Terraform/SaltStack/Ansible

Docker/Docker-Compose

Continuous Delivery/Integration (CI/CD)

Object-oriented design

Design and implement database structures

Lead and deliver complex software systems

Professional

Effective communication

Team player

Strong problem solver

Good time management

INTERESTS

Cycling

FAVORITE BOOKS

Site Reliability Engineering

design and built back-end tooling in python to export data from our RDS (MySQL/MariaDB) and transformed the data for import into Elastic. Also leveraged PhantomJS to provide means of generating PDF exports of the dashboard.

Experience with NodeJS/Socket.IO to push messages to the UI. All messages were sent through RabbitMQ and consumed by the Node process. Leveraged various types of queues, from fanout to round-robin.

Helped with various web server configurations, both Apache and Nginx.

Experience with pfSense/FreeNas/ProxMox

Software Engineer
Marketing Relevance | July 2012 - July 2013

Demonstrated excellent problem solving skills when creating or maintaining PHP driven applications and solutions.

In charge of designing, developing, and deploying a data management portal. The framework was designed using MVC methodology which caters to different functional requirements. Built with a solid codebase that is both extendable and flexible.

Experienced in programming front end UI by leveraging the jQuery JavaScript framework, css3, and html5. I've developed custom Ajax driven interfaces which dynamically loads and populates web page data. Very comfortable working with jQuery plugins, both implementing and modifying.

Maintained all production and development Linux CentOs/Red Hat servers, from installing/updating software packages to managing server firewall via APF/IPTables. Optimized Apache/MySQL configurations to yeild better performance.

Setup an onsite Linux box to be used as backup and SVN server. Configured web based repo management tools (webSVN & SVNManager) for employee use. Installed and configured a monitoring tool, Zabbix, to look after the health of production/development servers.

Web Developer & IT Specialist
Contractor | 2009 - 2012

Worked exclusively with small businesses to provide custom IT and web based solutions. As a one man IT department, I oversaw all technology operations:

Setting up and maintaining employee workstations and VOIP phone systems

Programming web based applications for customer/employee interaction (custom built CRM).

Landing page design/development. Custom built affiliate portal to manage/track sales.

Completed PCI Compliance, programmed/integrated merchant services within web applications.

Maintained all onsite hardware (network infrastructure, computers, printers, other devices).

PROJECTS

Interactive Data Analytics Platform - UI / Backend
Product/Service Deliverable

Employee Exit Portal - CRM Style Platform
Product/Service Deliverable

Dynamic ETL Data Management Solution
Client Specific Integration

Built as a complimentary service to the Exmployee Exit Portal. A custom ETL solution was a requirement to successfully process a rolling data file including employee exit data. Special rules and conditions must be followed.

RECOMMENDATIONS

Systems Engineer - Perceptyx

> " Matt is hard-working and professional. I have been impressed with his ability to dig into an problem until a solution is found. He has proven to be a valuable asset on our team and I would gladly work with him again.

— Christer Edwards, Senior Systems Engineer

Senior Software Developer - Kantar

> *I was fortunate enough to work side by side with Matt for over five years. From the first days working with him, it was obvious he was a cut above most others. To put it succinctly, Matt is a highly motivated extremely talented engineer. From full stack development in multiple languages to DevOps expertise with a proactive positive approach to problem solving, he has proven time and time again that he can immediately make an impact with any team he's a part of.*

— Brian Easley, Senior IT Administrator