

JOSEPH McDONALD

PRINCIPAL DEVOPS ENGINEER / CLOUD ENGINEER / CLOUD ARCHITECT

Executive Summary

Senior technology professional with a history of architecting and implementing cost and performance optimized solutions. Extensive proficiency in project management, team leadership, and mentoring others. Experience with stakeholder and executive engagement in all phases; discovery, design, and implementation. Additional skills in working with cross-functional teams, focusing on business development, and planning for long term objectives.

Contact Information



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Professional Experience

Nov 2021 - Present

Principal Devops Engineer | WideOrbit - San Francisco, CA / Remote

- Interface with development teams and executives for guidance on architecture and design for the cloud environment utilizing, but not limited to, windows, linux, active directory, virtual machines, containers, kubernetes, serverless, api gateways, load balancers, logging, monitoring, caching services, queuing services, object storage, and cloud databases in AWS, Google Cloud, and private cloud locations.
- Designed infrastructure as code solution using terraform, documented solution, and trained team on effective use of infrastructure as code.
- Worked with security teams on routine maintenance and reporting as well as architecting and implementing monitoring and reporting tools for compliance.
- Mentored on-shore and off-shore team members on cloud architecture and troubleshooting cloud solutions.
- Interviewed and screened new hire candidates to the on-shore and off-shore teams for technical skill and cultural fit.

Dec 2019 - Nov 2021

Senior Cloud & SRE Engineer | Bold Penguin - Columbus, OH / Remote

- Dedicated cloud architecture and engineering team member for two data analytics and two software engineering teams.
- Designed and deployed cloud resources in AWS using infrastructure as code utilizing Cloud Formation and Sceptre with a focus on using containerization and serverless technologies.
- Architected and implemented AWS API Gateway solution as front end endpoint for microservices based on AWS ECS or AWS Lambda.
- Migrated RiskGenius product infrastructure as code from Terraform to Cloud Formation and Sceptre after team merger.
- To reduce licensing cost, designed a high availability and scalable pipeline solution from the open source version of the pipeline orchestration tool Prefect utilizing AWS ECS for services and Fargate for job runs.
- Contributed updates to Prefect open source repositories to improve performance and scalability in AWS ECS and Fargate environments.

- Alongside the development teams, developed database architecture for products and services including migration scripting and security for AWS RDS based Postgresql and hosted MongoDB services.
- Worked with clients and development teams on architecting secure solutions for additional document encryption to be used with document transport, storage, and ingest pipelines utilizing Python, AWS KMS, and AWS Transfer Family (SFTP).
- Assisted development teams in meeting client requirements for specific region document storage by architecting an independent service to extract document retrieval, storage, and encryption, that took client encryption and storage requirements into account per client in a multi-tenant environment.
- Managed SOC 2 Type 2 certification process for the RiskGenius product.
- Regularly reviewed security of applications, networks, and deployments and advised teams on best practices.
- Optimized Docker container builds for size and runtime efficiency.

May 2012 - Dec 2019

IT Site Manager | Holley Performance, APR & Dinan Brands - Opelika, AL

- Manage all technology aspects including networking, servers, desktops, telephony system, physical security, and software platforms.
- Administer contracts and vendors for services, purchases, and consultants.
- Plan IT initiatives, projects, and budgets for all departments.
- Lead internal technology team and external consultants.
- Maintain accounts for domain access, email, ERP, and other systems.
- Virtualized IT infrastructure to reduce infrastructure cost and implemented disaster recovery plans with offsite storage and recovery in a private cloud.
- Improved sales of automotive performance software at remote event locations by architecting and implementing a robust and secure offline version of the company's custom software delivery platform along with supporting networking, laptops, cabling systems, custom tablet based point of sale, accounting systems, and payment solutions.
- Reduced communications cost and improved services by changing internet service provider and implementing cost effective voice over IP system with wholesale trunking provider to replace legacy solution.
- Worked with escalated client calls to troubleshoot and improve networking issues with global networking including reaching out to ISP trunk providers to report packet loss on specific links in core routing networks and even implementing dynamic tunneling system to reduce effect of client's regional based firewall system.

Jan 2011 - May 2012

IT Services Consultant | All Around Computers - Auburn, AL

- Managed clients' needs and technology projects.
- Supported clients and their end users on various data platforms.
- Planned routine maintenance and urgent response calls for clients.
- Fully managed the infrastructure for a local WISP service.
- Lead technology cost reduction initiatives for clients while improving services and reliability.
- Trained and directed other technicians within the company.

Jul 2008 - Nov 2010

Area Supervisor | Communications Unlimited - Columbus, GA

- Operated as direct contact and relationship manager for our client, Charter Communications in Columbus, GA.
- Supervised installation employee and contract field technicians, up to 20 team members.
- Managed local office operations, warehouse, and staff.

- Worked with the corporate office for record keeping, payroll, and client management.
- Trained office, warehouse, and field personnel client's procedures.
- Coordinated problem escalation and resolution with client.
- Planned daily routes and schedules for field technicians.
- Oversaw fleet management for employee field vehicles.
- Routinely reviewed KPIs, objectives, and expectations with the client.

Jul 2006 - Jul 2008

Contract Technician & Field Engineer | Self Employed - Southeast US

- Independent sub-contractor for Time Warner Cable, Charter Communications, Comcast Cable, and Cox Communications.
- Performed field installation, maintenance, and upgrades for cable TV systems.
- Located and resolved or escalated faults in the cable TV system.
- Install cable TV, internet, and telephony services in residential and commercial locations.
- Documented maps and reports of cable TV system maintenance and issues.
- Prioritized issue resolution to meet goals and improve system performance.

Mar 2004 - Jul 2006

Operations Manager | One Source Office Products - Tuscaloosa, AL

- Managed print shop operations and maintained all print shop equipment.
- Collaborated with clients on creating print projects to meet their needs.
- Acquired and refurbished office equipment for resale.
- Delivered, set up, and performed on-site maintenance of office equipment at client locations.
- Maintained all computers, network, and other equipment used by the company.

Jun 2002 - Jul 2006

Operations Manager | DCH Credit Union - Tuscaloosa, AL

- Administered all workstations, servers, telephony, and network equipment.
- Maintained data systems, backups, and real-time ATM/Debit card network.
- Responsible for all office supply and equipment ordering.
- Liaison between technology vendors and executive management.

Aug 2000 - Jun 2003

Unix Systems Administrator | University of Alabama - Tuscaloosa, AL

- Administered the Unix systems in the Geology Department.
- Installed and managed specialized software packages.
- Maintained system security.
- Supported end users on system use.
- Prior to the Geology Department position, worked at the University's Computer Center student and staff help desk.

Education

1996 - 2000

Advanced High School Diploma | Thomasville High School - Thomasville, AL

- GPA: 3.2

Certifications

Jun 2017

AIDT Leadership Skills I

Sep 2018

AWS Certified Solutions Architect Associate