David Nixon

Cloud & Full Stack Software Engineer

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SUMMARY

I am a Cloud and Full Stack Software Engineer with years of experience building scalable, cloud-native applications. I specialize in deploying robust solutions leveraging IBM Cloud, and Kubernetes. My expertise spans cloud infrastructure, DevOps automation, serverless computing, and full-stack development. I have led global teams, driving innovation through AI integration, CI/CD automation, and scalable cloud architectures. As an IBM Senior Technical Staff Member (STSM), I am recognized as a leader in cloud engineering and software development.

EXPERIENCE

Senior Cloud & Full Stack Developer

IBM

2020-present

- Architected and deployed cloud-native applications on IBM Cloud, optimizing performance and cost efficiency.
- Led the migration of legacy systems to containerized environments using Docker, and Kubernetes (Code Engine), achieving a 200% improvement in deployment time and enhanced system reliability

- Developed and managed serverless functions for event-driven applications using IBM Cloud Functions

SKILLS

Client side

Vue.js Nuxt.js Next.js React tailwindcss JavaScript npm yarn pnpm HTML CSS SCSS

Server side

Serverless (Code Engine, Functions) Microservices openid OAuth Secure endpoints with API keys PostgreSQL Db2 Couchdb Cloudant Express REST APIs design php

DevOps

CI/CD Docker Travis GitHub Actions Jenkins Git GitHub Jira IBM Cloud AWS cron jobs

Languages

JavaScript C++ Java Python Bash zsh

- Automated CI/CD pipelines using GitHub Actions, Jenkins, and Travis, reducing deployment times by 80%.
- Spearheaded observability improvements, implementing Instana for system monitoring and alerting.

Senior DevOps Engineer

IBM

2016-2020

Automated the deployment of event marketing web applications to IBM.com, increasing security, reliability, and speed-to-deployment.

- Automated cloud infrastructure provisioning, reducing manual setup time by 95%.
- Implemented secure authentication mechanisms (OAuth, OpenID) for cloud-hosted applications.
- Designed and maintained high-availability cloud architectures, improving uptime and system resilience.
- Managed cloud security best practices, including IAM policies, encryption, and network security.

Senior Software Engineer

IBM

2010-2016

Lead developer for WebSphere Portal supporting clients such as Wells Fargo, Brown Brothers, ADP, and Amtrak. Simplified the functionality enabling IBM to sell it to small businesses.

- Led development of IBM WebSphere Portal's first cloud-based SaaS offering using SoftLayer.
- Developed migration and installation tools, working directly with Fortune 100 clients.
- SME presenter at Portal conferences

CERTIFICATIONS

Senior Technical Staff Member (STSM)

IBM

Data Privacy Advocate

Credly

Open Source Strategic Commiter

IBM

Enterprise Design Thinking Practitioner

Credly

C++ Gold Level

HackerRank

Sql Bronze Level

HackerRank

Linux Shell - 100%

HackerRank

PROJECTS

Event Content Curation

- Developed a full-stack web application using Vue and Node.js, integrating PostgreSQL for data storage and management.

- Set direction for development with other members of senior leadership team

EDUCATION

Bachelor of Science in Computer Engineering

Auburn University

- Implemented CI/CD pipelines to automate testing and deployment on IBM Cloud, achieving compliance to data and security requirements, ensuring stability, and enabling observability

Client Journey

- Designed an architecture for enabling client to collaboratively review plans for on-site engagements with SME before the engagement begin which allowed deals to close faster.
- Designed the CI/CD pipeline, utilizing Docker and Code Engine (Kubernetes) for deployment.
- Leveraged Cloudant/ CouchDB for NoSQL data storage, optimizing application performance.
- Designed simple backoff scheme to accommodate low rate-limit APIs which resulted in 10% saving in db infrastructure costs

OPEN SOURCE

- Member, Call for Code (Linux Foundation)
- Lead Contributor, Carbon Vue components