

PAVEL SHCHOKIN

Lead/Senior DevOps
Warsaw

SUMMARY

Highly responsible and experienced Lead DevOps Engineer with over 20 years in IT, transitioning from software development and ERP implementations to DevOps leadership. Proven expertise in designing scalable, high-availability AWS environments with a strong focus on security, including IAM and data encryption. Skilled in managing CI/CD pipelines, enhancing team performance, and ensuring efficient deployments. Known for effective team leadership, problem-solving, and collaboration with development teams to optimize application performance and scalability.

PROFESSIONAL EXPERIENCE

Lead DevOps

Blockchain Service Provider | 2023 - Present

- Managed infrastructure on DigitalOcean and bare-metal servers, deploying and maintaining both development and production environments.
- Led deployment of K3s clusters to optimize resources for high-performance blockchain validator nodes across multiple networks.
- Oversaw the setup and scaling of validator nodes in various blockchain ecosystems, ensuring stability and reliability under production-level workloads.
- Implemented strategies for secure and efficient scaling of validator nodes, balancing performance and cost-efficiency for high-demand blockchain networks.

Lead DevOps

Online English School | 2022 - 2023

- Orchestrated a full-scale migration from AWS ECS to AWS EKS, enhancing scalability and infrastructure manageability.
- Migrated deployment pipelines to ArgoCD, implementing GitOps-based workflows for streamlined operations.
- Configured auto-scaling to efficiently handle high-traffic services, such as video calls and emotion recognition.
- Integrated Google Kubernetes Engine (GKE) and Google BigQuery for data analysis and automation.
- Contributed to development efforts using Node.js and Ember.js, fostering collaboration between DevOps and development teams.

Senior DevOps Engineer

4irelabs | 01/2021 - 01/2022

- Collaborated in a team of three DevOps engineers to support early-stage startups across various blockchain ecosystems, including Solana, Polkadot, and Ethereum.
- Managed multiple AWS-based projects, focusing on scalability and security to support rapid growth and high transaction volumes. K3s & Docker Swarm on EC2, bare-metal.
- Developed infrastructure solutions tailored to the unique requirements of blockchain technology and blockchain-based gaming projects.

Lead DevOps & Full-Stack Developer

YesIT | 01/2018 - 01/2020

- Led the development and deployment of an omnichannel SaaS platform for customer support from scratch, using Node.js and Ember.js.
- Acted as a full-stack developer, collaborating closely with front-end and back-end specialists to create a robust and scalable platform.
- Engineered a solution enabling seamless integration with various messengers, supporting real-time customer interactions across multiple channels.
- Led the design and development of a comprehensive trading platform from scratch on bare-metal Kubernetes, ensuring high availability, security, and scalability.
- Managed both DevOps and development processes, overseeing a cross-functional team through all stages of the platform's lifecycle.
- Architected and optimized a robust application stack using Ruby on Rails and Ember.js to meet high performance and reliability standards in a high-traffic environment.

Lead Developer and Project Manager

YesIT LLC | 01/2007 - 01/2018

- Designed and implemented a modular CRM system on Ruby on Rails, integrating external APIs.
- Led deployment in cloud environments using Docker and Kubernetes for reliability and scalability.

Founder and Lead Developer

Self-owned ERP Solutions Company | 2003 - 2015

- Co-founded and managed a business focused on ERP implementations using 1C:Enterprise 8.
- Led development of a custom ERP system for large-scale enterprises, managing teams of 7–20 people.
- Oversaw project delivery and quality assurance, ensuring high standards in enterprise solutions.

ERP Implementation Specialist

1C Developer and Entrepreneur | 2000 - 2003

- Began career implementing business applications with 1C, certified in financial and managerial components.
- Contributed to significant implementations in management and accounting solutions.

Core Expertise

- AWS Expertise: Extensive experience with AWS for scalable, high-availability, and secure cloud services, including IAM and data encryption.
- CI/CD Pipeline Optimization: Proven track record in designing and maintaining CI/CD pipelines with Terraform and Kubernetes, accelerating product release cycles.
- Leadership and Mentorship: Effective leader in mentoring and developing DevOps teams, conducting regular performance reviews to foster professional growth.
- Cross-Cloud Capabilities: Familiar with Microsoft Azure, Google Cloud, and Red Hat OpenShift, with successful multi-platform project deployments.
- Diverse Cloud Providers: Effective use of Hetzner, Vultr, and DigitalOcean for cost-effective, flexible cloud solutions.

Technical Skills

Programming Languages: Proficient in JavaScript, TypeScript (front-end and back-end), Ruby (backend services and scripting).

Cloud Platforms: Advanced knowledge of AWS, Azure, OpenShift, Hetzner, DigitalOcean, and cloud-native tools.

Container Orchestration and Virtualization: Kubernetes (EKS, AKS, OpenShift), Docker & Docker Swarm, virtualization platforms (KVM, OpenVZ, XEN, Hyper-V, VMware, EC2).

Frontend Technologies: Proficient with React, EmberJS, Tailwind, Foundation, Bootstrap, and experience with SvelteJS and VueJS.

Backend Technologies: Node.js, NestJS for scalable applications, Ruby on Rails for web applications, RabbitMQ, Redis, NATS, Kafka for data handling and real-time services.

Monitoring & Observability: Prometheus, Grafana, Kibana, LokiStack, Logstash, Elasticsearch, CloudWatch.

Infrastructure Automation and IaC: Expertise in Infrastructure as Code (IaC) with Terraform and CloudFormation, enabling scalable and reliable infrastructure management.

Problem-Solving and RCA: Strong skills in root cause analysis for complex system issues, implementing long-term solutions to enhance performance and cost-efficiency.

Project Management & Collaboration: Tools like Atlassian JIRA, Redmine, MS Project, GitLab, GitHub for collaboration, GitOps practices.

Operating Systems: Extensive experience with Linux distributions (Ubuntu, CentOS, SUSE, Proxmox, Arch), macOS, Windows, FreeBSD.

Databases: Experience with relational and NoSQL databases (PostgreSQL, MSSQL, MySQL, MongoDB), Kubernetes-native solutions like Cloudnative-pg and Zalando PostgreSQL Operator.

Version Control Systems: Expert in Git (GitHub, GitLab, Bitbucket).

IDEs and Development Tools: Visual Studio Code, Eclipse, Rubymine, Webstorm.

Web/Application Servers: Experience with Nginx, Passenger, Puma, Node.js.

Achievements

Notable accomplishments in optimizing systems and leading high-impact projects include:

AWS Migration and Optimization: Led successful migrations from ECS to EKS, implementing auto-scaling and optimizing AWS resources to enhance service reliability and cost-efficiency.

CI/CD Automation with ArgoCD: Migrated deployment pipelines to ArgoCD, significantly improving time-to-market and ensuring consistent, reliable deployments.

Omnichannel Support System Development: Designed and deployed a scalable omnichannel support platform for banking and enterprise clients, resulting in increased operational efficiency and seamless customer interactions across multiple channels.

Enhanced Application Performance and Scalability: Collaborated closely with development teams to optimize application performance and scalability, achieving substantial improvements in time-to-market and reductions in infrastructure costs.

Process Implementation and Methodology Adaptation: Successfully implemented and adapted Agile and Scrum methodologies for rapid development cycles and feedback integration. Leveraged Waterfall and RUP for structured project phases and adhered to ITIL and PMBOK standards for service and project management.

ISO 9001:2015 Certification: Successfully implemented and achieved ISO 9001:2015 certification, aligning operational processes with international standards for quality and customer satisfaction.