

Jacob Klein

CTO | Lead
Developer

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Summary

Adaptable, results-driven Software Engineer and Technical Architect with a proven record of leading full-stack development, infrastructure migrations, and DevOps initiatives. Expert in building scalable in-house systems and managing distributed development teams. Known for fast learning, excellent interpersonal communication, and leading infrastructure transformations that significantly reduce costs and enhance control. Self-taught with a strong foundation in system architecture, infrastructure automation, and mentoring developers. Execution-focused, fast, and dependable – consistently delivers high-quality results on time.

Experience

Next Millennium / CTO | Lead Developer

Dec 2017 - Present, Montvale, NJ

System Architecture & Development

- Designed and built scalable, high-performance distributed systems handling real-time data processing and decisioning.
- Developed modular backend services and APIs enabling flexible integration across multiple internal and external systems.
- Built a customizable client-side framework to control external integrations, optimize request behavior, and manage third-party service interactions.
- Designed and implemented internal reporting and analytics infrastructure to provide actionable business and operational insights.
- Delivered clean, reliable, and maintainable solutions across frontend, backend, and APIs

Infrastructure & DevOps

- Architected and executed a migration from cloud infrastructure to a self-managed on-premise environment, significantly improving cost efficiency and operational control.
- Implemented infrastructure-as-code practices using Terraform, automated provisioning with Ansible, and containerized workload orchestration with Nomad.
- Built automated deployment pipelines and CI/CD workflows using TeamCity and GitHub Actions to ensure consistent and reliable releases.
- Integrated monitoring, logging, and alerting systems to provide operational visibility and proactive incident detection.
- Ensured performance, scalability, and availability of mission-critical systems.
- Managed networking, TLS/SSL configuration, and firewall policies to ensure secure and stable infrastructure operations.

System Reliability & Operations

- Maintained and supported mission-critical production systems requiring high uptime and reliability.
- Diagnosed and resolved performance bottlenecks, scaling challenges, and production incidents.
- Implemented monitoring strategies, alerting systems, and operational runbooks to ensure rapid incident response.

Team Leadership

- Managed and mentored a distributed team of developers, including offshore engineers.
- Led technical planning sessions, architectural discussions, and system design decisions.
- Conducted code reviews and infrastructure reviews to maintain high standards of quality and reliability.
- Delegated development work, coordinated project timelines, and ensured successful delivery of complex initiatives.
- Acted as the primary technical escalation point for critical production issues and system failures.
- Cultivated a collaborative team culture focused on clean code, technical growth, and delivery.

Education

Self-Taught Developer

Focused on Computer Science, Full-Stack Development, and System Architecture

- Learned independently through technical books and platforms like LinkedIn Learning (formerly [Lynda.com](#)).
- Built a comprehensive skillset covering programming, infrastructure, DevOps, and software architecture.

Skills

Technical Skills:

- **Languages:** HTML, CSS, JavaScript, Node.js, Go, Bash, PHP (basic), Python (basic), JSON/YAML/CSV.
- **Frameworks/Tools:** React, Prebid.js, Prebid-server.
- **Databases:** MongoDB, Redis, SQL.
- **DevOps & Infrastructure:** Docker, Nomad, Terraform, Ansible, Nginx, Traefik, Ubuntu, Git, CI/CD (TeamCity, GitHub Actions), Consul.
- **Monitoring/Logging:** Datadog, Prometheus, Grafana.
- **Networking/Security:** DNS, TLS/SSL, UFW (firewall), load balancing.

Soft Skills:

- Strong leadership and mentoring abilities.
- Experienced in code and infrastructure reviews.
- Clear communicator with both technical and business stakeholders.
- Ability to translate business requirements into technical solutions.
- Self-motivated with a strong ownership mentality.
- Result-oriented; follows through to completion.
- Fast, continuous learner and adaptable to changing priorities.
- Thrives under pressure and delivers quickly without compromising quality.
- Tech-savvy with a strong ability to quickly learn and adapt to new technologies.

References

Lazar Rubin - CEO at Next Millennium Media
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Benny Steuer - CFO at Next Millennium Media
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