Denis Bystrov | Senior Principal Cloud Architect

dbystrov@gmail.com / [LinkedIn](#)

Senior Principal Cloud Architect with over 20 years of experience designing and implementing large-scale cloud and on-premises solutions, specializing in high-availability systems and advanced security practices.

Education

Degree: **Bachelor – Computer Science**

Experience

- Designed and developed scalable on-premise and cloud-based SaaS solutions
- Architected end-to-end data flows and APIs
- Analyzed and enforced security standards
- Researched and evaluated emerging cloud platforms and technologies, creating proof-of-concepts that validated and accelerated adoption of innovative solutions.
- Developed robust microservices and distributed systems, enabling flexible, modular architectures for high-demand environments.
- Empowered cross-functional teams by promoting collaboration and shared goals
- Designed and implemented secure data communications and infrastructure

Skills and knowledge

Cloud & Infrastructure	Security & Compliance
- AWS, Azure, GCP - Docker, Kubernetes, Elastic Load Balancing - Terraform, HashiCorp Vault, Consul, Waypoint	- Identity & Access Management (AuthN/Z) - JWT/JWKS, encryption best practices - Infrastructure security, network security, SAMM compliance
Databases & Storage	**Observability & Monitoring**
- MongoDB, MySQL, PostgreSQL, Redis, Cassandra - Graph,, Elastic/Open search - Distributed databases, data caching, and event-driven architectures	- Datadog, Prometheus, ELK stack - Logging, tracing, and metric-based monitoring for high-traffic environments - Business Intelligence (BI) reporting
Architecture & Design	**Development & Deployment**
- Microservices architecture, CQRS/ES patterns - Horizontally scalable platforms and distributed systems - Mesh architectures and API-driven design	- CI/CD pipelines, GitOps workflows - Distributed file and asset management systems - Licensing and billing service integrations

Professional Activity

Period: **March 2008 - present**
Company: **Avid Technology Inc - Montreal, QC**
Project: Media platform and services
Job Position: Senior Principal cloud architect, Team lead

In my role as Senior Principal Cloud Architect at Avid Technology, I design, develop, and oversee Avid′s high-performance, distributed platform serving PaaS solutions across cloud and on-premises environments in multiple global regions. Key responsibilities include:

- Leading the architecture and implementation of a resilient, scalable cloud platform supporting a suite of technologies, including AuthN/Z, Licensing, Billing, CQRS/ES, and mesh architectures, ensuring seamless operation and regulatory compliance across multi-geo deployments.
- Managing the full lifecycle of Avid′s PaaS solutions, from requirements gathering through solution analysis to deployment, continually aligning architecture with evolving business needs and technical advancements.
- Spearheading Avid platform optimization initiatives, driving a 25% performance boost and reducing operational costs by 30% through strategic refactoring and infrastructure enhancements.
- Overseeing cross-functional engineering and operations teams, instilling best practices, and mentoring junior team members to improve productivity and team cohesion.
- Collaborating with leadership and stakeholders to ensure alignment of architectural and strategic goals, delivering transformation programs that enhance business value and operational efficiencies across the platform.

Period: **March 2005 - March 2008**
Company: **Nampac Inc - Montreal, QC**
Project: Search Engine and Customer Relationship Management System
Job Position: Senior Developer, Project Manager

- Spearheaded the design, development, and launch of the vertical search engine, achieving a 30% increase in processing speed through optimized algorithms.
- Managed cross-functional teams, including internal and outsourced Development, QA, and System Administration, to deliver a CRM system with enhanced business object mapping, successfully reducing system response times by 25%.
- Developed prototypes and process flows, delivering a functional, scalable solution within the planned development timeframe and under budget.