

JOHN BIENIEK

Staff Software Engineer | Distributed Systems | Cloud Platforms

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PROFILE

Staff software engineer with 15+ years building and operating distributed systems, cloud platforms, full-stack products, and enterprise integrations. Technical lead experienced in modernization, APIs, data workflows, observability, and production reliability, with a focus on turning complex technical constraints into systems and decisions that work for both engineers and business stakeholders.

SELECTED EXPERIENCE

The Home Depot | Staff Engineer / Senior IT Developer

- Technical lead for distributed engineering teams delivering enterprise applications across 2,000+ retail locations and international operations.
- Owned architecture and development for cloud-native services, APIs, data platforms, and device integrations spanning modern applications and legacy retail infrastructure.
- Designed and operated multi-region systems using Java/Spring, Node.js, React/Angular, Kubernetes, Kafka, GCP, Cassandra, Spanner, PostgreSQL, and MongoDB.
- Led modernization from tightly coupled legacy functionality to independently deployable services, improving deployment safety, observability, supportability, and cross-system integration.
- Designed REST and GraphQL platforms plus asynchronous, event-driven, and high-volume batch workflows supporting distributed data access and enterprise integrations.
- Introduced automation and AI-assisted operational tooling for incident triage, production support, and engineering workflows; drove RCA, performance tuning, and reliability improvements.
- Mentored engineers and interns, led technical design discussions, and translated architecture tradeoffs for engineering, product, and business stakeholders.

Accessible Solutions | CTO

- Designed and delivered a nationwide nurse scheduling platform from concept to production, reducing core scheduling workflows from hours to minutes.
- Defined the full-stack architecture, APIs, user interfaces, scheduling logic, and data pipelines for concurrent real-time use.
- Translated complex operational constraints into automated scheduling and assignment workflows that improved consistency for administrators and care teams.

Lakeland Fine Arts | CIO

- Architected cloud-native workflow and commerce systems supporting automation, operational orchestration, direct sales, and expanding business initiatives.
- Designed integrations across commerce, fulfillment, and internal business processes while keeping the platform adaptable for additional operations.

NCR | Software Developer

- Led development of multi-engine C++/.NET enterprise retail test tooling used to validate complex point-of-sale environments.
- Delivered performance-sensitive financial and banking systems with SQL-backed data management and production support requirements.

Georgia Tech Research Institute | Augmented Reality Researcher

- Developed handheld augmented reality applications in C and Java and improved low-level camera access performance by 50%.

TECHNICAL SKILLS

Languages & Frameworks: Java, Spring Boot, TypeScript, JavaScript, Node.js, React, Angular, Python, Go, C, C++, C#, .NET, HTML5

APIs & Integration: REST, GraphQL, API design, enterprise integration, asynchronous processing, workflow orchestration

Architecture & Patterns: Distributed systems, microservices, DDD, event-driven design, cloud-native services, event streaming

Cloud & Infrastructure: GCP, AWS, Cloud Foundry, Kubernetes, Docker, Terraform, Infrastructure as Code, serverless

Data Platforms: PostgreSQL, MySQL, Spanner, Cassandra, MongoDB, SQL Server, DB2, Oracle, Redis, BigQuery

DevOps & Build: CI/CD, Jenkins, GitHub Actions, TeamCity, Concourse, deployment automation, feature flags

CORE EXPERTISE

Architecture & Systems

Distributed systems, microservices, event-driven design, DDD, REST, GraphQL

Cloud & Platform

GCP, AWS, Kubernetes, Docker, Terraform, Kafka, CI/CD

Application Engineering

Java/Spring, Node.js, TypeScript, React, Angular, Python, C/C++, C#/.NET

Data & Operations

PostgreSQL, Spanner, Cassandra, MongoDB, SQL Server, Redis, observability

Leadership

Architecture ownership, technical design, mentorship, incident response, stakeholder communication

LEADERSHIP & DELIVERY

- Technical leadership for distributed engineering teams
- Architecture reviews, design tradeoffs, and modernization strategy
- Mentoring, code review, and engineering standards
- Production ownership, incident response, RCA, and reliability
- Cross-functional communication with technical and business stakeholders

SELECTED IMPACT

- Enterprise platforms serving 2,000+ retail locations
- Legacy-to-cloud modernization and platform decomposition
- Large-scale API, data, and device integration work
- Nationwide scheduling reduced from hours to minutes
- Multiverse Adventurers Guild: accessible web UX with voice-command navigation and gameplay actions for blind players

EDUCATION

B.S. Computer Science

Graduated with Honors
Georgia Institute of Technology

Observability & Reliability: New Relic, Prometheus, Grafana, Jaeger, distributed tracing, metrics, logging, production alerting, performance profiling

AI & Automation: RAG, AI-assisted development, intelligent automation, API orchestration, AI-enabled operational tooling

Engineering Practices: Incident response, RCA, on-call support, TDD, performance testing, security integration, code review, technical mentorship