# Ben Gaudiosi

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## Summary

Staff Software Engineer with 7+ years building high-scale distributed systems at Toast and aerospace startup Analytical Space. Led architectural design for menu publishing system (reducing publish times from 5min to ¡1min) and configuration management platform (enabling 80% faster product innovation), serving as Tech Lead driving cross-functional initiatives across the organization. Currently Technical Design Lead providing technical oversight and approval across engineering domains. Expertise in Java, Kotlin, React, and microservices architecture with proven track record of delivering measurable business impact at scale.

## Experience

**Toast Inc, Boston, MA**

### Staff Software Engineer, Technical Design Lead

*October 2024 - Present*

- Architected menu publishing system and authored technical RFC, implementing distributed entity mapping layer handling 30k+ RPS and reducing publish times from 5 minutes to ¡1 minute, enabling top customer-requested features serving all restaurant customers; optimized publishing system for enterprise customers with 500+ locations, reducing query time by 60% and enabling 90% faster multi-location publishing (from hours to minutes)
- Led team of 7 through rollout of new publishing platform to production, addressing scalability challenges for high-volume configuration changes across multi-location restaurant groups
- Serve as Technical Design Lead providing technical oversight, RFC approvals, and architectural guidance across multiple engineering teams and domains

### Senior Software Engineer, Tech Lead

*July 2021 - October 2024*

- Led architectural overhaul to decouple configuration publishing from legacy monolithic application, reducing configuration creation time from 12 weeks to ¡1 week and powering launch of 30+ new configuration types across all lines of business with 80% faster product innovation
- Architected and delivered scheduled publishing system end-to-end, enabling restaurants to schedule menu and pricing changes in advance, addressing feature tied to $20M in blocked deals and $14M in ARR
- Delivered configuration history feature end-to-end across GraphQL API and React frontend, implementing entity diff computation, filterable audit trail, integration links, and dynamic display name generation to provide restaurant operators visibility into configuration changes and improve debugging workflows
- Led technical ownership transition of restaurant creation systems serving 100% of new customers, implementing Micrometer observability infrastructure and resolving 2 high-severity production incidents (restaurant copy failures for enterprise accounts, database connection leaks in creation workflows)

### Software Engineer

*September 2019 - July 2021*

- Led database migration from PostgreSQL to DynamoDB for 70,000+ restaurant configurations, achieving zero-downtime migration while improving query performance and enabling horizontal scalability for future growth
- Optimized database performance following production incident by implementing low latency follower reads, reducing load on primary instance and improving system resilience during peak traffic periods
- Completed cross-team API migrations for configuration platform, migrating 5+ critical services across payment processing, customer management, and ordering domains to new publishing endpoints while maintaining 100% backward compatibility

- Established continuous delivery pipelines for 2 critical services, accelerating team iteration and reducing manual deployment overhead

## Analytical Space Inc, Boston, MA
### Software Engineer
*May 2017 - September 2019*

- Designed microservice architecture for spacecraft and ground operations using containerized applications communicating via JSON-RPC, handling telemetry collection and command/control for satellite subsystems
- Led migration from NoSQL to PostgreSQL across multiple applications, re-architecting data models and ensuring zero downtime for mission-critical telemetry storage
- Managed full software development lifecycle across embedded systems, full-stack web applications (Python/Flask, Qt, JavaScript), and mission control frontend built with NASA's OpenMCT

## Skills

**Languages:** Java, Kotlin, Python, JavaScript/TypeScript, SQL
**Frameworks & Libraries:** React, Spring Boot, Node.js, Flask, GraphQL
**Databases:** DynamoDB, PostgreSQL, MongoDB
**Systems & Tools:** AWS, Git, Microservices Architecture, Docker, Claude Code
**Domain Expertise:** AI/LLMs, Distributed Systems, System Architecture, API Design, Technical Leadership, Cross-Functional Collaboration

## Education

### Boston University, Boston, MA
*Master of Science and Bachelor of Arts, Computer Science (Minor in Mathematics)*     December 2018
GPA: 3.8/4.0 (Dean's List, 9 semesters)