

Robert Kennedy

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Senior Software Engineer & Systems Architect

*Designing and Modernizing Enterprise Applications,
Services Architecture, and Distributed Systems*

Hands-on Software Engineer and Systems Architect with extensive experience in designing, building, and maintaining the core code and architecture behind enterprise applications, data platforms, and distributed systems. Career built as an individual technical owner and architect — writing production code, designing database and system architecture, and leading migrations and modernizations — across manufacturing, analytics, and telecommunications environments. Currently expanding skills in Kotlin, modern mobile architecture, and cross-platform engine design through active independent projects.

Technical Skills

Languages: Java, Kotlin, C#, C++, JavaScript, Python, PL/SQL, SQL

Databases: Oracle, SQL Server, MySQL, PostgreSQL, Sybase

Architecture & Platforms: Enterprise Applications, Distributed Systems, Services Architecture, Systems Integration, Legacy Modernization, Data Warehousing, and API Design

Professional Experience

MESH Food Labs 06/2008 – 06/2024

Senior Software Engineer & Systems Architect (Sole Technical Owner)

- Designed, coded, and maintained a multi-user Java/MySQL enterprise application and services architecture from the ground up, serving as the company's system of record for product lifecycle management, manufacturing traceability, and operational reporting for 16 years.
- Held full end-to-end technical ownership — architecture, database design, application code, API design, deployment, and production support— with no engineering team to delegate to, functioning as the company's entire software engineering function.
- Wrote and maintained version-controlled release cycles supporting continuous feature delivery, lot tracking, and recall-reporting systems used daily across manufacturing operations.
- Designed and built the technical systems behind the U.S. test-market launch for Danone France specialty pudding products, engineering the data and reporting pipeline that supported scaling production to 400% of the original market plan.

I-Behavior 01/2007 – 05/2008

Lead Software Architect

- Recruited to design system architecture, establish technical standards, and build the engineering team from scratch for a full modernization of a consumer analytics and market-optimization platform, coding core components in Java, C#, C++, and PL/SQL.
- Architected and helped implement a distributed, multi-tier data platform on a 5+ TB Oracle and SQL Server warehouse, designing data marts, stored procedures, and star-schema models.
- Led the technical modernization of a legacy platform onto a distributed Unix architecture, delivering in 16 months against an 18-month target and 15% under budget.

Hewlett-Packard (DEC → Compaq → HP) 03/1995 – 12/2006

Senior Software Engineer & Systems Architect

- Wrote and delivered enhancements to HP's Clarify CRM enterprise web application platform, coding case-management workflows, reporting features, and enterprise data-integration components used by worldwide contact-center operations.
- Served as technical lead and hands-on engineer for a major Sybase-to-Oracle migration, writing the core migration code and validation logic that modernized enterprise data infrastructure without customer-facing downtime.
- Set technical standards, led architecture and code reviews, and directed release engineering across a 14-member engineering organization spanning the U.S., Ireland, France, India, and Australia.
- Earned four consecutive annual HP Divisional Awards for engineering quality, low-defect delivery, and operational reliability on business-critical systems.

Walmart — Contract 08/2024 – 08/2025

Automation Support Analyst

- Supported enterprise systems in large-scale Linux and AWS environments, performing root-cause analysis and production troubleshooting on business-critical platforms.

Birdville ISD — Contract 09/2025 – Present

Mathematics Instructor

- Applied structured, data-driven problem-solving methods to raise student proficiency from 30% to 58% within two months.

Current Independent Projects

Yahtzee Game Engine (Kotlin) — github.com/rek-65/YahtzeeGameEngine-KMP

- Architected and coded a platform-independent, UI-agnostic game engine with clean API boundaries, deterministic scoring logic, and multiplayer state management, validated across Android, Linux, and Windows with zero platform-specific dependencies.

Yahtzee Cross-Platform Application (Kotlin, Jetpack Compose) — github.com/rek-65/Yahtzee

- Built a reactive, state-driven Android client integrating with the custom engine through defined APIs, sharing a single platform-agnostic core across Android, Linux, and Windows.

Education & Certifications

Bachelor of Business Administration, Management Information Systems — The University of New Mexico

- Relational Database Certification, PostgreSQL — freeCodeCamp (2024)
- Foundational C# with Microsoft, MS Visual Studio — freeCodeCamp (2024)
- JavaScript Algorithms and Data Structures — freeCodeCamp (2024)
- Responsive Web Design — freeCodeCamp (2024)
- Oracle Certified Engineer — Oracle University
- Database Administration, Stored Procedure Tuning, SQL Performance Administration — Sybase Technical Training
- MSSQL Administrator Training — Microsoft Technical Training