PORTFOLIO

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Technology leader and hands-on architect. Twenty-five years of shipping software in regulated, data-heavy and now AI-driven businesses.

Security · Records · LLM integration · Data · Delivery

WHERE I HAVE DONE IT

Every team has the same six problems

LLM products

A production RAG platform built from the primitives up, with guards, testing and monitoring.

Security

A company-wide incident response program: plan, team, training and phishing drills.

Records and compliance

FDA 21 CFR Part 11 systems, with audit trails and access control designed in.

Regulatory reporting

High-volume reporting and AML work for a major Canadian bank’s capital markets unit.

Data pipelines

Event-driven analytics for a platform serving over 550 pro sports organizations.

Delivery workflow

AI-assisted development standards, ephemeral environments and phased releases.

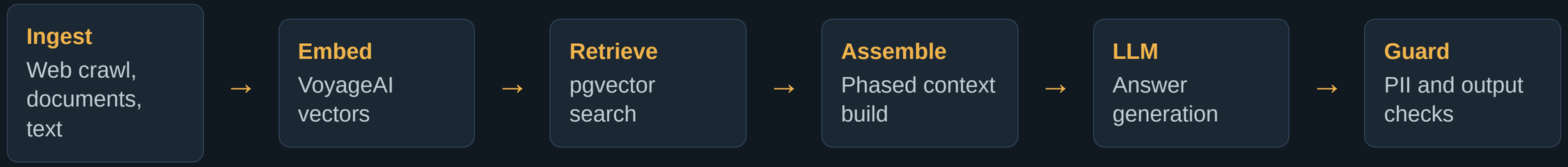
CAREER AT A GLANCE

From hands-on engineer to board-level owner

Years	Organization	Role and focus
2026 to now	DEK Consulting Inc.	Founder. Consulting and AI engineering.
2021 to 2026	BluStream	VP, Software Development. B2B SaaS and AI platform.
2020 to 2021	Kinduct	Director, Software Development. Sports health data.
2015 to 2020	CGI	Director and Solution Architect. Finance and government.
2013 to 2015	Fitify Technologies	Co-founder and CEO. SaaS across four countries.
2006 to 2013	immediaC Worldwide	CTO. Healthcare, retail, automotive, government.
2000 to 2006	VelQuest and Medusa Medical	Product Architect. FDA-regulated lab and clinical software.

LLM INTEGRATION · BLUSTREAM

A production RAG platform, built from the primitives



THE PROBLEM

Customers needed answers drawn from their own content, not from a model’s general memory.

WHAT I BUILT

The full pipeline in Java with no framework. I was sole architect and developer.

THE VALUE

Live with customers in phases from summer 2026, with automated guards on every output.

Patterns: parallel first-phase processors gather signals, later phases are built dynamically from their results · Stack: Java, PostgreSQL, pgvector, AWS

LLM INTEGRATION · QUALITY AND MONITORING

Knowing an AI feature is still right

THE PROBLEM

An LLM feature can quietly get worse when documents change or the model changes.

WHAT I BUILT

Pre-launch testing with canonical question and answer pairs over known documents. In production, an alerting mechanism that every component reports to.

THE VALUE

Drift is caught by measurement and alerts, not by a customer complaint.

TESTS COVERED

- Chunk quality
- Selection, discovery and confidence thresholds
- Document version drift
- Model drift

MONITORING

- EMA and CUSUM alerting, written by me
- Instrumentation across components

SECURITY · BLUSTREAM, 2023

A company-wide incident response program

THE PROBLEM

The business needed one agreed way to prepare for, and respond to, cyber and data incidents.

WHAT I BUILT

The incident response plan, a cross-functional response team, annual training from real use cases, simulated phishing, and mandatory security onboarding for every new hire.

THE VALUE

A documented, trained and repeatable response, with a clear way for staff to report a suspicious email.

COMPONENTS

- Incident response plan
- Response team: IT, PR, HR, Operations, Physical Security
- Designated Incident Response Manager
- New-hire sign-off tracked to “trained”

PATTERNS

- Measure, then train
- One reporting path

RECORDS AND COMPLIANCE · VELQUEST AND MEDUSA MEDICAL

Software that stands up to an FDA audit

THE PROBLEM

Pharma and clinical labs must keep electronic records that regulators will accept.

WHAT I BUILT

As product architect, laboratory execution and clinical software designed for FDA 21 CFR Part 11 compliance.

THE VALUE

Regulated labs could run SOP and drug-testing work on controlled electronic records.

TECHNOLOGIES

VB6 · Oracle · C# · SQL Server

PATTERNS

- Audit trail by design
- Access control from day one
- Controlled documents and runs

REGULATORY REPORTING · CGI

Reporting and AML at bank scale

THE PROBLEM

A major Canadian bank’s capital markets unit had to report global transactions to regulators across jurisdictions, including anti-money-laundering rules.

WHAT I BUILT

I led the teams and wrote software for a high-volume regulatory reporting engine, with audit trails and access controls designed in from the start.

THE VALUE

Reports the bank could stand behind in an audit, delivered by distributed teams.

TECHNOLOGIES

C# / .NET · SQL Server · Solace · Azure

PATTERNS

- Message-driven data flow
- Audit trail by design
- Per-jurisdiction rules

Also at CGI: a wealth management reporting solution, and an offender-tracking system for a justice-sector client.

DATA PIPELINES · KINDUCT

Analytics for pro sports, run on events

THE PROBLEM

A health and performance data platform serving over 550 professional sports organizations had to grow while keeping sensitive data reliable.

WHAT I DID

As department head, I led Core Platform, Data Engineering, Mobile and QA. I directed the redesign of the Kafka-based ETL toward event-triggered transformations, with performance and logic fixes.

THE VALUE

Cleaner, faster data flowing to the analytics clients depend on.

TECHNOLOGIES

Kafka · Snowflake · Tableau · AWS · PHP / Python

PATTERNS

- Event-triggered ETL
- Message brokering
- Enterprise commitments balanced against platform investment

DELIVERY WORKFLOW · BLUSTREAM

Shipping sooner with AI-assisted engineering

THE PROBLEM

Leadership needed a release much sooner than the original estimate allowed.

WHAT I DID

Split the work into scheduled phases so core functionality shipped first, and cut earlier phases back with stakeholder agreement. Made Claude Code with MCP a standard team practice, with review norms for AI-generated code. Led ephemeral environments on CloudFormation.

THE VALUE

Smaller, more frequent releases and a team that uses AI tools safely.

TECHNOLOGIES

Claude Code · MCP · CloudFormation · Azure DevOps · Docker

PATTERNS

- Phased releases, core first
- Aggressive descoping
- Ephemeral environments
- Review norms for AI code

LEADERSHIP

From the board room to the pull request

20

Largest team led: developers, QA and data science at Kinduct.

4×8

Four teams of eight developers led at CGI.

3

Countries covered by distributed delivery teams: Canada, the US and Pakistan.

Q

Quarterly board reporting as VP, owning the whole technology function.

Also: chaired the Architecture Community of Practice at CGI Atlantic, led technical solutioning and oral presentations for RFPs with C-suite audiences, and led BluStream teams of 5 to 15.

DISTRIBUTED SYSTEMS · VELQUEST

Tablets that coordinate without a central server

THE PROBLEM

Lab staff needed documents and test runs shared across tablets on the lab floor.

WHAT I BUILT

A peer-to-peer communication layer over UDP inside the laboratory execution software, coordinating documents and runs for SOP and drug testing.

THE VALUE

Devices stayed in step on the lab floor as part of a regulated workflow.

RELATED WORK

- Offender-tracking system architecture and code (Track Group, via CGI)
- International SaaS across four countries (Fitify)

PATTERNS

- Peer-to-peer messaging
- Device and run coordination

TOOLKIT · HANDS-ON

What I have built with my own hands

Languages

Java, C# and .NET, Python, JavaScript, Node.js, SQL, VB6, ASP

Data

PostgreSQL, pgvector, SQL Server, Oracle, ActiveMQ, Solace

AWS

Lambda, ECS, S3, IAM, Secrets Manager, CloudFormation, CloudWatch

Azure and delivery

Azure deployments, Azure DevOps pipelines, Docker, Sonar scans

Web

React, Next.js, progressive web apps

AI

RAG from scratch, VoyageAI embeddings, Claude and the Anthropic SDK, Claude Code, MCP

Security

WorkOS single sign-on, RBAC, encryption, credentials management, per-client keys

Observability

Datadog, New Relic, CloudWatch, EMA and CUSUM alerting I wrote

TOOLKIT · LED AND DIRECTED

What I owned through teams

Data platforms

Kafka-based ETL redesign, Snowflake and Tableau analytics at Kinduct, BI reporting at CGI

Infrastructure

Docker and Kubernetes at Kinduct, ephemeral environments on CloudFormation at BluStream

Identity and security

Okta implementation, company-wide incident response program, phishing drills

Teams and stacks

PHP and Python platform team, mobile, QA, data science, a front-end shop and a team in Pakistan

Quick to pick up an unfamiliar stack: the fundamentals carry across.

LET’S TALK

Whatever your problem, the pattern is familiar

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Source code stays private. Architecture walkthroughs are available under NDA.