

Kamal Babu Gokanakonda

Operating Cases · Evidence Interfaces · Interactive Systems

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PROFESSIONAL SUMMARY

Dual-degree graduate with a B.S. in Management and a B.A. in Psychology, building independent operating cases, evidence interfaces, and interactive systems for complex operational problems.

INDEPENDENT OPERATING CASE PORTFOLIO — BUILDER / ANALYST

2026–PRESENT · INDEPENDENT PORTFOLIO WORK

Built ten operating cases across infrastructure, logistics, trade, retail operations, supply-chain resilience, field service, and workflow automation. Developed four interactive evidence interfaces using published figures, structured scenario data, review queues, and decision-state comparisons.

FOUR INTERACTIVE FLAGSHIP INTERFACES

CASE 005

Data-Center Speed-to-Power War Game

BUILT

A constraint and sequencing model for turning capacity ambition into power-ready execution.

DECISION SUPPORTED

Which dependencies, readiness gaps, and intervention points should be prioritized first.

DEMONSTRATES

Infrastructure constraint modeling, scenario comparison, and decision-interface design.

CASE 007

3PL Cost Leakage Digital Twin

BUILT

A cost-reconstruction model connecting rate cards, transactions, fee stacks, evidence, and margin leakage.

DECISION SUPPORTED

Where fulfillment economics break and which cost components require investigation.

DEMONSTRATES

Cost reconstruction, process mapping, operational analysis, and evidence visualization.

CASE 008

AI Operations Control Tower

BUILT

A review-queue and escalation interface connecting evidence states, priorities, and operating decisions.

DECISION SUPPORTED

Which items require review, escalation, or action first.

DEMONSTRATES

Workflow design, review-queue logic, evidence interfaces, and operational prioritization.

CASE 012

Supplier Shock / Resilience Reconfiguration Model

BUILT

A scenario-comparison model connecting disruption, cost, service risk, and alternate-supplier readiness.

DECISION SUPPORTED

When accelerated supplier qualification improves resilience despite additional modeled cost.

DEMONSTRATES

Supply-chain scenario analysis, resilience modeling, evidence comparison, and decision-state design.

CORE CAPABILITY GROUPS

Operational analysis

Scenario and constraint modeling · Operational risk analysis · Decision-state comparison

Research and documentation

Source-grounded research · Documentation and source boundaries · Protocol-based workflows

Systems and interfaces

Evidence-interface design · Workflow and review-queue design · Data and process visualization

Interactive systems

Godot prototype systems · Gameplay-loop and state design

Operating library, interactive systems, and background

Independent portfolio work · Education · Experience · Honors · Publication

REMAINING OPERATING-CASE LIBRARY

006 **Tariff / HTS / Origin Shock Simulator**
Trade-risk scenarios, classification and origin logic, exposure prioritization, and data visualization.

009 **Data-Center Construction Delay / Procurement War Game**
Long-lead procurement dependencies, schedule scenarios, commissioning gates, and intervention priorities.

010 **Warehouse Labor + Throughput Bottleneck Simulator**
Labor bottlenecks, throughput scenarios, zone constraints, and process visualization.

011 **Retail Returns / Refund Review / Margin Leakage System**
Returns workflows, exception review, reverse-logistics analysis, and margin-protection logic.

013 **Field-Service Dispatch / Downtime Recovery System**
Dispatch priority, downtime recovery, capacity and parts readiness, and service workflow design.

014 **Enterprise Workflow Automation ROI / Risk Model**
Automation eligibility, ROI and risk ranges, human review, and implementation gates.

GAME PROTOTYPE STUDIES

Ricochet Duel
Local gameplay-loop design, movement and ricochet systems, round-state logic, and Godot prototype development.

Loop Heist
Time-loop system design, retained-action layering, cycle-state logic, and gameplay-system prototyping.

Project Echo
Asymmetric Hider/Seeker roles, echo, decoy, scan and swap mechanics, local split-screen, controls, and state management.

EMPLOYMENT HISTORY

JAN–APR 2025
Peer Tutor
Iowa State University / Knack
Tutored Computer Science, Mathematics, and Psychology in one-to-one and small-group settings. Overall rating: 4.8/5.

2024
Laboratory Assistant
Iowa State University Agronomy Department
Processed recurring soil samples, supported nematode-extraction workflows, and maintained equipment, documentation, chemical-waste procedures, and a safe workspace.

2023
Psychology Research Assistant
Iowa State University
Supported protocol-based participant sessions, scheduling, records, data entry, and quality checks.

2023
Student Worker
Iowa State University
Supported event setup, room turnover, and equipment handling.

EDUCATION
Iowa State University
Bachelor of Science in Management, magna cum laude
Bachelor of Arts in Psychology, magna cum laude
Minor: Leadership Studies
Conferred August 8, 2026 | GPA: 3.85

HONORS
Dean’s List · President’s List
Beta Gamma Sigma · Psi Chi

PUBLICATION · 2026
Solar-powered graphene desalination unit for national water security.
Kamal Babu Gokanakonda
Desalination and Water Treatment