

# Jarrett Vick

Database, Systems & AI Engineer | Agentic Systems Architect

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## PROFESSIONAL SUMMARY

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Seasoned IT engineer with 30+ years of experience in database administration, systems engineering, backend development, and AI-driven automation. Pioneer in autonomous AI development systems, having built production-ready multi-agent platforms that automate the full software development lifecycle. Deep expertise in Python, PostgreSQL, MS SQL, Neo4j, and cloud infrastructure. Creator of the Agentic Server platform and the Genesis Project—autonomous AI ecosystems that plan, code, test, review, and deploy software without human intervention.

## TECHNICAL SKILLS

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**Agentic AI Systems:** Autonomous development platforms, multi-agent orchestration, SDLC automation, GitHub/Notion integration, parallel agent execution, self-improving AI systems, MCP toolchains.

**AI/LLM Development:** Claude integration, RAG pipelines, embedding search, sandbox execution, autonomous coding agents, DeepSeek, OpenAI.

**Python Development:** Flask APIs, automation frameworks, SQL-heavy applications, multi-process orchestration, ETL loaders.

**Databases:** PostgreSQL, MS SQL, Neo4j (graph modeling, Cypher), SQL optimization, knowledge graphs.

**Data Pipelines:** ETL/ELT design, schema architecture, lineage tracking, AI data preparation.

**DevOps & Cloud:** Linux, Docker, Google Cloud, Linode, Git workflows, CI/CD integration.

## FEATURED PROJECTS

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### Agentic Server — Lead Developer (2024–Present)

*Autonomous Software Development Platform*

- Architected and built an autonomous development platform that watches for tasks and dispatches AI agents to implement them automatically through the complete SDLC.
- Implemented trigger systems using GitHub webhooks, polling, and Notion integration to detect work items and route them to appropriate workflows.
- Designed isolated execution environment using git worktrees, enabling parallel agent work across multiple repositories without conflicts.
- Built full SDLC workflow automation: Plan → Build → Test → Review → Document → Ship, with automatic PR creation and CI/CD handoff.
- Developed domain queuing system to prevent conflicts when multiple issues touch the same codebase areas.
- Created Scout scanning capability for proactive codebase analysis (security vulnerabilities, code quality issues, missing test coverage).
- Engineered self-improvement loop allowing the platform to create issues for itself and implement its own fixes.

### Genesis Project — Lead Developer (2024–2025)

*Adaptive Pattern Intelligence AI System*

- Built an autonomous AI development platform with multi-tier domain architecture designed for self-improvement and specialization.
- Designed Neo4j graph memory system enabling semantic relationships and long-term agent reasoning across sessions.
- Developed ETL pipelines feeding PostgreSQL and Neo4j for AI workflows, dependency mapping, and competency measurement.
- Engineered secure Python sandbox for LLM-generated code execution and tool evolution.

- Integrated Claude, DeepSeek, and OpenAI models into scalable backend systems with capability testing frameworks.

## PROFESSIONAL EXPERIENCE

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### **KC Business Trust — Lead Systems, Database & AI Engineer**

*2008–Present*

- Design and maintain MS SQL, PostgreSQL, and Neo4j databases for analytics and automation.
- Develop Python applications, AI automations, and Flask-based microservices.
- Implement virtualization (VMware) and cloud deployments (Google Cloud, Linode).
- Build ETL pipelines, agent tooling, and AI backend infrastructure.

### **INLINE Technologies — Systems Engineer**

*2006–2008*

Windows Server administration, Cisco networking, SQL support, VMware infrastructure.

### **Meadowbrook Healthcare — SQL Database Administrator**

*2003–2005*

MS SQL database management, reporting systems, VMware, terminal services.

### **Northstar Networks — Network Engineer**

*2000–2002*

Cisco routing and switching, firewall configuration, MS SQL, VMware.

### **EWTN — Novell Network Administrator**

*1995–2000*

Novell network administration, fiber optic infrastructure, early virtualization, VBA automation.

## EDUCATION & CERTIFICATIONS

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Google Cloud Data Engineer (In Progress)

MCSE, CCNA, MS SQL DBA (Previously Maintained)

CACC Coursework, JR Pittard Trade School — Electronics & Digital Circuits