

# Adam Vega

## Lead AI Engineer & Technical Architect

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## Professional Summary

Lead AI Engineer and Technical Architect with 10+ years of enterprise software experience, specializing in bridging the gap between Big Data and applied Artificial Intelligence. Expert in orchestrating **Generative AI, Agentic Workflows, and LLM integrations** to automate complex enterprise bottlenecks. Proven track record of architecting predictive AI systems and automated intelligence pipelines for Fortune 200 leaders, transforming manual processes into self-sustaining revenue and compliance engines.

## Technical Skills

- **AI & Machine Learning:** Generative AI Integration, Agentic Workflows, Context Engineering, Predictive Algorithms, AI-Assisted Architecture (Claude Opus, Gemini, Copilot)
  - **Backend & Cloud:** Node.js, Express, RESTful APIs, AWS, Google Cloud, Server-Side Tracking (ssGTM)
  - **Frontend Architecture:** JavaScript (ES6+), TypeScript, React, Angular, Server-Side Rendering (SSR)
  - **Tools & Methodologies:** Agile/Scrum, CI/CD, Git, System Modernization, Workflow Automation
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## Professional Experience

### Florida Power & Light (Fortune 200 Energy) *Tech Lead / AI Architect | July 2025 – Present*

- Lead the architecture and development of a mission-critical "Grid Intelligence" platform, orchestrating Generative AI and Agentic Workflows to process real-time SCADA telemetry.
- Architected an end-to-end AI document automation platform that evaluates predictive alarm signals, transforming a manual 240-hour monthly engineering task into an automated <1-hour workflow.
- Eliminated a potential \$1M/day regulatory compliance risk by deploying an AI-driven data analysis pipeline for federal NERC audits.

- Lead department-wide seminars on AI-Assisted Development, establishing enterprise best practices for LLM utilization and secure AI coding.

**Tata Consultancy Services (TCS) Senior Technical Architect & Solutions Engineer | Dec 2014 – June 2025** Served as a lead technical consultant deployed to architect automated systems and modernize platforms for Fortune 500 clients:

- **CSX (May 2022 – June 2025)**
  - Led the critical migration of enterprise tracking infrastructure to Server-Side GTM, building a secure data pipeline to capture high-fidelity analytics and logistics attribution.
  - Directed the modernization of B2B portals into high-performance SSR architectures, increasing load speeds by 35% to support real-time data streaming.
- **Petco (Feb 2020 – Apr 2022)**
  - Engineered a custom automation engine using TypeScript and RESTful APIs that transformed a 40-hour weekly manual reporting process into a 2-hour automated workflow, directly optimizing inventory allocation strategies.
- **Amazon (March 2019 – Feb 2020)**
  - Led technical teams in developing predictive algorithms and automated operational intelligence signals to identify systemic inventory losses, resulting in a 22% reduction in global warehouse variance.
- **Kaiser Permanente (May 2018 – May 2019)**
  - Developed dynamic data visualization dashboards and standardized RESTful API endpoints for complex internal systems, enabling real-time monitoring that saved \$33M annually by eliminating data duplication.
- **DaVita Inc. (Mar 2017 – Apr 2018)**
  - Led development projects for enterprise healthcare applications, analyzing complex clinical data sets to optimize digital workflows and increase clinical throughput.
- **Walmart / Sam's Club (Dec 2014 – Feb 2017)**
  - Architected and developed a data-driven personalization engine using AI heuristics to analyze member purchase history and automate hyper-relevant marketing offers.
  - System leveraged enterprise data pipelines to predict customer needs, directly driving \$650M in incremental sales within 6 months.

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## Education

**University of California, Berkeley** Bachelor's Degree