

Passionate **technology leader** and **digital transformation expert** with over 18 years of experience steering major IT firms through complex technical challenges. Awarded the *Presidential Circle Award* for leadership in large-scale integration and optimizing system architectures.

Strategic architect with a *seat at the table*, influential in defining product roadmaps and infrastructure strategies that drive revenue and client satisfaction. Expert in navigating stringent regulatory environments while delivering scalable, high-performance cloud solutions and believe there isn't anything we can't accomplish with the right combination of people and technology

Professional Experience

Jan 2023 – Present

Solutions Architect / Co-Founder, CTO

DK GLOBAL SOLUTIONS, Virginia

- SaaS & Enterprise Full-Stack Engineering:** Architected end-to-end platforms leveraging **NextJS** (SSR, API routes), **ReactJS**, **AngularJS**, **NestJS** and **NodeJS**, with **Redux** for high-performance UIs. Seamlessly integrated **Supabase**, **Stripe**, and **Vercel** for authentication and payments while architecting scalable **Express.js** backends with **PostgreSQL** and **MySQL**.
- Advanced Angular, PHP & LAMP Stack Development:** Built high-performance applications using Angular, Laravel, Symfony, and Drupal, ensuring modular development, reusability, and rapid deployment.
- Cloud & DevOps Automation:** Engineered **AWS-based microservices** using **ECS**, **Lambda**, and **API Gateway** while establishing end-to-end **CI/CD pipelines** via **Terraform** and **GitHub Actions** to enhance scalability and deployment efficiency.
- AI-Powered Virtual Assistant Development:** Designed and deployed AI-driven chatbot solutions using **AWS Lex**, **Bedrock**, and **Retrieval-Augmented Generation (RAG)** for automated customer support and business process automation.
- Database Architecture & Management:** Designed scalable database schemas with **PostgreSQL**, **MySQL**, and **DynamoDB**, optimizing query performance, data consistency, and backup strategies.
- E2E Testing & Automation:** Built end-to-end test automation suites using **Cypress**, **Jest**, **Playwright**, ensuring application stability and reliability.
- Multi-Tenant & Role-Based Access Systems:** Implemented **RBAC** authentication using **OAuth**, **OpenID Connect**, and **SAML**, ensuring enterprise-grade security for SaaS applications.
- Infrastructure Cost Optimization:** Reduced cloud costs by 30% through automated scaling policies, infrastructure monitoring, and AWS resource optimizations.
- Mentorship & Leadership:** Led cross-functional development teams, mentoring engineers and enforcing best practices in clean architecture, performance optimization, and DevOps workflows.

Jan 2017 – 2025

Solutions Architect / Manager Web Applications

Metropolitan Washington Airports Authority (MWAA), Washington, D.C.

- Next.js & Full-Stack Mastery:** Architected end-to-end SaaS solutions using **Next.js** (SSR, API routes, Server Actions) and **React/Redux**, delivering high-performance UIs with **ShadCn**, **Next UI**, and **Tailwind CSS**.
- Enterprise Backend & APIs:** Engineered scalable **Node.js/Express**, **Java**, and **PHP (Laravel, Symfony, Drupal)** backends, architecting **RESTful APIs** with **Open API 3.0** contracts and schema validation.
- Cloud & Microservices Strategy:** Migrated legacy workloads to **AWS**, **Azure**, and **GCP**, modernizing architectures using **Docker**, **Kubernetes**, and containerized services for distributed system optimization.
- Data Architecture & NoSQL:** Designed high-volume schemas for **PostgreSQL**, **MySQL**, and **MongoDB**, implementing sharding, replication, and transactional consistency for enterprise reliability.
- Salesforce & Multi-Cloud Integration:** Integrated **Salesforce Health Cloud**, **Service Cloud Voice**, and **Agent Force** via secure streaming pipelines and multi-cloud connectivity.
- Security & Identity Governance:** Championed **SOC2 compliance** by implementing advanced protocols, including **OAuth2**, **OpenID Connect (OIDC)**, **SAML**, and **SCIM** for robust authentication and data integrity.
- Strategic Leadership & Fiscal Oversight:** Managed a **\$20M+ contract portfolio** and led cross-functional stakeholders to align IT resources with organizational growth and revenue goals.

- **Project Consulting & Technical Excellence:** Provided expert consulting on web infrastructure, leveraging analytical problem-solving to deliver scalable platforms and high-impact technical solutions.

Jun 2015 – Jun 2016

Senior Web Architect

Havas Media Group

- **Additional roles and responsibilities are provided on request.**

Skills

Management & Strategy : Leadership & People Management Agile Methodologies (Scrum) Technology Roadmaps & Strategy Stakeholder & Vendor Management Portfolio & Contract Management B2B & B2C Strategy,

Cloud & Infrastructure : AWS, GCP, & Azure Kubernetes & Docker Microservices Architecture Cloudflare & DNS Management SaaS & PaaS Deployment Heroku & Acquia,

Backend Development : PHP Expert: Laravel, Symfony, Drupal, Yii, Yii2, CakePHP, NestJS, NodeJS, ExpressJS Python, Java, & .Net/C# Go, Scala, Ruby, & Rails Restful Services, gRPC, & Web Services,

Frontend & UI : Next.js, React.js, & VueJS Angular JS & jQuery Tailwind CSS & CSS3 HTML5, AJAX, & Responsive Design ,

Data & Messaging : RDBMS: MySQL, Oracle, PostgreSQL NoSQL: MongoDB, DynamoDB Messaging: Kafka, RabbitMQ,

Security & Identity : Auth: OAuth, OpenID Connect, SAML Identity: OKTA & Authorization Protocols Security Engineering ,

Business Systems : Salesforce & SharePoint Workday, CMMS, & CLMS Permit Systems Loyalty & Advertising Tech ,

DevOps & Tools : Git, JIRA, & NPM Composer & pip A/B Testing & Audience Targeting

Certifications

AGILE & LEADERSHIP

- CSM - Scrum Alliance (2022)
- PSM I - [Scrum.org](https://www.scrum.org) (2020)

CLOUD & INFRASTRUCTURE

- Red Hat Certified Engineer (2010)
- IBM Certified Solution Developer Web Sphere Portal V6.1 (2011)

REFERENCES

References available upon request