




Eric L. Dobbs

Systems Architect | Principal Software Engineer | AI-Augmented Engineering Leader
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PROFESSIONAL SUMMARY

Systems-focused engineering leader with 20+ years of experience designing, modernizing, and scaling enterprise software platforms. Specializes in distributed systems architecture, event-driven design, and microservices using Java and Spring Boot.

Proven ability to lead modernization initiatives, define system boundaries, and deliver resilient, production-grade solutions across cloud environments. Experienced in integrating AI-powered capabilities into applications while enforcing engineering standards for correctness, security, and maintainability.

Recognized for bridging business objectives with technical execution, mentoring engineers, and evaluating technical talent in an AI-augmented development landscape.

SELECTED PROJECTS

Ulogy.ai — AI-Powered Legacy & Memorial Platform

- Designed and developed an AI-powered platform for generating and preserving personal eulogies with dynamic QR-based access
 - Implemented LLM-driven content generation workflows integrated with persistent storage and retrieval systems
 - Architected dynamic URL resolution for QR code access, supporting long-term content durability and user accessibility
 - Designed system with considerations for sensitive data handling, content longevity, and user personalization
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Cardomatic — AI-Assisted Greeting Card Generator

 <https://interfacetc.com/cardomatic>

- Built AI-powered web application for generating personalized greeting cards with dynamic content
 - Implemented document generation workflows (PDF rendering) with precise layout and formatting control
 - Designed prompt-driven content generation pipeline to ensure consistency and usability of AI outputs
 - Delivered user-focused customization workflows supporting real-time content generation and download
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Football Officials Productivity PWA

- Designed and developed a mobile-first Progressive Web Application to support scheduling, assignment tracking, and operational workflows
 - Implemented offline-capable functionality to support field usage scenarios with limited connectivity
 - Modeled domain-specific scheduling and assignment logic to improve operational efficiency
 - Delivered a practical, real-world tool aligned with user workflows and constraints
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ENGINEERING LEADERSHIP & SYSTEM DESIGN

- Designed distributed microservices architectures using Java and Spring Boot, emphasizing modularity, scalability, and maintainability
 - Led adoption of event-driven architectures using Kafka, enabling asynchronous processing and reducing system coupling
 - Defined API contracts and data models to support consistent communication across services
 - Implemented observability strategies including structured logging, metrics, and traceability for production diagnostics
 - Designed systems with failure-aware patterns including retry strategies, idempotent processing, and resilience mechanisms
 - Established engineering standards and governance practices to ensure consistency and quality across development teams
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PROFESSIONAL EXPERIENCE

GuideHouse — Software Applications Manager / Senior Software Engineer

2023 – 2025

- Led modernization of legacy enterprise applications into scalable microservices architectures using Java and Spring Boot
 - Designed and implemented RESTful APIs with clearly defined contracts, enabling integration across distributed systems
 - Directed CI/CD pipeline strategy using Jenkins and Bitbucket, improving build reliability and deployment consistency
 - Integrated database-driven business logic (PL/SQL) with service-layer applications, optimizing performance and data integrity
 - Partnered with stakeholders to design and deploy cloud-based solutions across AWS and Azure environments
 - Provided technical leadership across engineering teams, establishing coding standards, architectural patterns, and review processes
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Georgia System Operations Corp (GSOC) — Developer Manager / Senior Software Engineer

2019 – 2023

- Designed and developed enterprise microservices and REST APIs using Spring Boot, improving system integration and scalability
 - Led modernization initiatives transitioning legacy systems to cloud-ready, containerized architectures
 - Directed Agile development teams, overseeing delivery, code quality, and adherence to engineering best practices
 - Implemented CI/CD pipelines to support continuous integration, automated testing, and deployment workflows
 - Established secure coding practices and contributed to improving system reliability and performance
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CGI — Developer Manager & IT Strategy Lead

2015 – 2019

- Led modernization of enterprise hosting platforms, improving performance, scalability, and deployment efficiency
 - Designed enterprise API frameworks using Java and Spring Boot aligned with business and technical requirements
 - Introduced DevOps practices and automation using Jenkins, improving delivery speed and operational consistency
 - Collaborated with executive stakeholders to align architecture strategy with long-term business goals
 - Guided Agile transformation efforts across development teams
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Interface Technology Consultants — Independent IT Consultant

2000 – 2015

- Delivered enterprise-level software solutions for clients including Hitachi, AutoTrader, IHG, CenturyLink, and others
 - Developed full-stack applications across front-end, middleware, and database tiers using Java-based technologies
 - Designed and implemented scalable systems tailored to client-specific business requirements
 - Consistently delivered high-quality solutions on time and within scope
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Apex Systems — Technical Screener (Part-Time)

2020 – Present

- Conduct technical assessments for mid-to-senior level engineering roles across Java, Spring Boot, Python, AWS, and SQL
 - Evaluate candidate problem-solving ability, system design thinking, and real-world experience
 - Provide hiring recommendations based on technical depth, reasoning, and communication skills
 - Adapt screening strategies to account for AI-assisted responses and ensure candidate authenticity
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AI-AUGMENTED ENGINEERING

- Integrated LLM-based capabilities into production applications for content generation and user interaction workflows
 - Designed prompt engineering strategies to improve consistency and reliability of AI-generated outputs
 - Established validation and review practices to mitigate risks associated with AI-generated code and content
 - Leveraged AI to accelerate development while maintaining strict standards for security, correctness, and maintainability
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TEACHING & MENTORSHIP

Gwinnett Technical College — Adjunct Professor (Programming Languages)

2024 – Present

- Teach foundational and intermediate programming concepts including Java, Python, and object-oriented design
 - Develop curriculum focused on practical software engineering and real-world problem solving
 - Guide students through debugging, testing, version control, and structured development practices
 - Mentor students preparing for internships and entry-level software development roles
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TECHNICAL SKILLS

Languages: Java (8–17), Python, SQL

Frameworks: Spring Boot, Hibernate/JPA, RESTful Microservices

Messaging & Streaming: Kafka

Databases: Oracle, PostgreSQL, MySQL, SQL Server, DB2

Cloud & DevOps: AWS, Azure, GCP, Docker, Kubernetes, Jenkins

Frontend: Angular, React, Vaadin, Responsive Design

AI Platforms : OpenAI(Codex), Grok, DeepSeek

EDUCATION

Master of Science in Information Science — University of Phoenix
Focus: IT Strategy, Digital Transformation & Software Leadership

Bachelor of Science in Computer Science / Business — Southern New Hampshire University

Computer Science Studies — Clark Atlanta University

DIFFERENTIATORS

- Combines deep hands-on engineering expertise with system-level architectural thinking
 - Proven ability to modernize legacy systems into scalable, cloud-ready platforms
 - Early adopter of AI-augmented development with focus on governance and validation
 - Strong communicator, mentor, and evaluator of technical talent
 - Experience spanning enterprise consulting, product development, and academic instruction
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