

Kouider Bakhti

Software Architect | Industry Solutions Engineer

Enterprise AI • Cloud Solutions • Distributed Systems

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Portfolio: www.kouiderbakhti.com

Engineering Motto

Transforming complex business challenges into practical, scalable technology solutions.

Executive Profile

Software Architect specializing in enterprise software, cloud-native applications, distributed systems, and artificial intelligence. Experienced designing, modernizing, and delivering business-critical software while partnering with customers to translate complex business requirements into secure, scalable, and maintainable technology solutions.

Recent work focuses on architecting cloud-native enterprise AI platforms using Python, FastAPI, PostgreSQL, Microsoft Azure, Docker, OpenAI APIs, GitHub Actions, and CI/CD to transform customer requirements into secure, scalable software solutions.

Core Competencies

- Architecture & Design: Software Architecture • Enterprise Architecture • System Design • Distributed Systems • Cloud-Native Applications
- Backend Engineering: Python • FastAPI • REST APIs • PostgreSQL • API Design
- Cloud & DevOps: Microsoft Azure • Docker • Git • GitHub Actions • CI/CD
- Artificial Intelligence: OpenAI APIs • AI Applications • Workflow Automation • Prompt Engineering
- Languages: Python • C++ • C# • Java • JavaScript • SQL
- Customer Engineering: Requirements Analysis • Solution Design • Technical Consulting • Business Process Automation

Selected Career Highlights

- Extensive experience designing, modernizing, and delivering enterprise software solutions across multiple industries
- Designed enterprise payroll, HR, and accounting systems supporting approximately 6,000 employees.

- Founded and led WebTek Global Solutions for more than two decades.
- Led modernization of business systems toward Microsoft Azure cloud services.
- Architected an Enterprise AI Customer Engagement Platform using FastAPI, PostgreSQL, OpenAI, Azure, Docker, and RingCentral. Designed and documented complete software architecture through Executive Architecture, AI Workflow, Deployment Architecture, Security Architecture, and Architecture Decision Records (ADRs).
- International software engineering experience spanning Algeria, Canada, and the United States.

Professional Experience

Independent Software Developer / Software Architect (2026–Present)

Architected and led the development of a cloud-native Enterprise AI Customer Engagement Platform integrating conversational AI, secure backend services, cloud deployment, workflow automation, and professional architecture documentation.

Founder & Software Architect — WebTek Global Solutions (2004–2026)

Founded and operated a software engineering consultancy delivering CRM, scheduling, HR, payroll, membership, and e-commerce platforms while modernizing legacy systems into cloud-ready architectures.

Managing Member / Technology & Operations Director — Terra Spa LLC (2014–2026)

Directed technology strategy, business systems modernization, cloud migration planning, and operational technology supporting a multi-location customer-facing business.

Software Developer — Network Solutions (2001–2003)

Developed distributed communication software for wireless monitoring and remote highway camera systems using C++ and embedded technologies.

Software Development Engineer — ERCO Algeria (1992–1997)

Designed enterprise payroll, accounting, and HR systems for a large public-sector organization.

Representative Engineering Projects

- Enterprise AI Customer Engagement Platform — Cloud-native AI platform using Python, FastAPI, PostgreSQL, OpenAI APIs, Azure, Docker, RingCentral, and Architecture Decision Records.
- Azure Modernization Initiative — Migrated business applications to Microsoft Azure.
- Speech Recognition Research — Hidden Markov Models (HMM).

- Voice over IP Research — Distributed communication systems.

Education

Master of Software Engineering — Université du Québec à Montréal (UQAM)

Graduate Research: Voice over IP (VoIP) and Distributed Communication Systems.

Bachelor of Software Engineering — Djillali Liabès University

Senior Project: Speech Recognition Using Hidden Markov Models.

Why Microsoft Industry Solutions Engineering

I enjoy partnering with customers to understand complex business challenges and translating them into secure, scalable, cloud-native software solutions. My background in software architecture, enterprise modernization, distributed systems, and artificial intelligence enables me to bridge technical depth with practical business outcomes while building trusted customer relationships.

Professional Engineering Portfolio

Engineering Library

- Executive Architecture
- Enterprise Application Modernization Strategy
- Artificial Intelligence Workflow Architecture
- Deployment Architecture
- Security Architecture
- Architecture Decision Records (ADRs)
- Knowledge Center
- GitHub Engineering Repository

Every engineering claim presented in this resume is supported by publicly available architecture documentation, engineering artifacts, and source code that demonstrate the design, implementation, and evolution of enterprise software systems.

Professional Closing

Engineering is about more than technology—it is about partnering with people to solve meaningful business problems through thoughtful architecture, practical innovation, and continuous learning.

Transforming complex business challenges into practical, scalable technology solutions.