BOUNAIX LLC

Patrick Bounaix

Founder & Principal Advisor, BOUNAIX LLC

Fractional CTO | Technical Due Diligence | Software Expert Witness

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PROFESSIONAL SUMMARY

Founder & Principal Advisor of BOUNAIX LLC, providing fractional CTO leadership, technical advisory, engineering operating assessments, technical due diligence, and software expert witness support.

20+ years of software engineering and leadership experience across startups, enterprise environments, fintech, insurtech, regulated platforms, and mission-critical transactional systems. Known for combining architectural judgment, delivery discipline, and hands-on technical credibility when software decisions carry business, legal, or operating risk.

CORE COMPETENCIES

Strategy & Leadership
Fractional CTO leadership, technical strategy, organizational growth, due diligence, board communication

Platform & Architecture
Event-driven systems, cloud-native SaaS, distributed platforms at scale

Cloud & Delivery
AWS, Azure, Kubernetes, CI/CD, DORA, GitHub Actions, infrastructure as code

AI/ML & Emerging Tech
Operational LLM implementation, AI tooling, model governance, practical implementation

Security & Compliance
SOC 2 Type II, DevSecOps, threat modeling, AML, fraud-sensitive systems

Team Culture
Developer experience, hiring, career frameworks, mentorship, retention

PROFESSIONAL EXPERIENCE

Founder & Principal Advisor — **BOUNAIX LLC** — **2025-Present**

- Provide fractional CTO and principal advisory services across architecture, engineering execution, technical strategy, and operating cadence.
- Conduct technical assessments and due diligence for companies, partners, and legal teams evaluating software risk, modernization readiness, delivery confidence, and platform durability.
- Provide software expert witness and litigation support in matters involving system behavior, technical implementation, SDLC governance, requirements/scope disputes, and software delivery issues.

Independent Consultant / Principal Software Architect — **Patrick Bounaix** — **2005-2025**

- Primary architect and long-term technical lead for a mission-critical transaction platform processing $1B+ in annual volume across AML and fraud-sensitive workflows.
- Designed, built, and maintained custom business-critical systems across finance, retail, legal-support, healthcare, insurance, and enterprise environments.
- Supported software-related legal matters through technical review, website and supporting-document analysis, development effort analysis, report support, deposition preparation, and deposition.
- Representative support included website behavior analysis, technical implementation review, supporting-document review, comparable-site analysis, development effort analysis, report support, deposition preparation, and deposition.

Vice President, Software Engineering — **Roots Automation / roots.ai** — **2023-2025**

- Scaled global engineering organization from 6 to 30+; led technical due diligence supporting Series B funding.
- Architected and oversaw production LLM pipelines processing 1M+ insurance documents annually, achieving 97%+ document-level accuracy across structured and unstructured workflows.
- Streamlined CI/CD across 200+ repositories; established DORA metrics and GitHub analytics for delivery health.
- Directed fault-tolerant containerized architecture; implemented DevSecOps and cost-aware cloud practices.
- Established observability stack; achieved 95% team satisfaction through a Developer Experience program.

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PROFESSIONAL EXPERIENCE

Director of Engineering — Vestwell — 2017-2023

- Grew engineering organization from 20 to 80+ through Series C; drove platform delivery across fintech product surface.
- Defined event-driven architecture improving reliability and boosting user adoption 150%.
- Modernized engineering delivery practices through coaching, process refinement, and full-stack framework standardization.
- Designed role frameworks and growth paths; mentored engineers into senior and lead roles.

KEY ACHIEVEMENTS

Team Scale-Up: Built and led engineering organizations through Series B and Series C growth, expanding teams from 20 to 80+ engineers at a Series C fintech SaaS platform and 6 to 30+ at an AI/automation startup, with engineering organization design and hiring responsibility.

AI/ML Impact: Architected and oversaw production LLM pipelines processing 1M+ insurance documents annually, achieving 97%+ document-level accuracy across structured and unstructured workflows.

Delivery Velocity: Engineering delivery pipeline modernization through CI/CD automation, DORA metrics, and process refinement.

Platform Durability: Mission-critical transaction platform maintained since 2012, supporting $1B+ annual volume in AML and fraud-sensitive workflows.

Security: Led SOC 2 Type II audit readiness and ongoing technology governance in regulated technology environments; established DevSecOps and QA practices organization-wide.

Expert Witness: Two prior software expert engagements, including technical analysis, written report preparation, deposition preparation, and deposition.

EARLIER EXPERIENCE

- Senior Software Engineer | Lifion by ADP | 2015-2017
- VP of Technology | FieldOne, acquired by Microsoft | 2013-2014
- Senior Consultant | Avanade | 2007-2013
- Early-career technical roles at Redcats, Healthcareware, Acclaim Entertainment, and BSP

TECHNICAL SKILLS

Languages: .NET/C#, Java, Scala, Node.js/TypeScript, React/Next.js, Python

Cloud & DevOps: AWS, Azure, Docker, Kubernetes, GitHub Actions, Jenkins, IaC, HA/DR

Data & Messaging: PostgreSQL, MS SQL, MongoDB, Redis, event-driven microservices

AI/ML & Tooling: LLM integration, Haystack, Cursor, GitHub Copilot, Claude, model governance

Observability: ELK, Datadog, Highlight.io, LaunchDarkly, LinearB, Sumo Logic

Security: SOC 2, DevSecOps, threat modeling, AML compliance, feature flagging

EDUCATION & CERTIFICATIONS

B.S. Computer Science, New York Institute of Technology | Microsoft Certified Professional | MongoDB for Node.js Developers | Sumo Logic Fundamentals