BOUNAIX LLC

Patrick Bounaix

Fractional CTO · Software Expert Witness · Engineering Advisor
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BOUNAIX LLC works with growth-stage companies and legal teams on complex technical challenges — from scaling engineering organizations to expert testimony in software disputes. Two decades of production experience across regulated industries, including a mission-critical trading platform processing over $1B annually in AML- and fraud-regulated environments. Equal parts operator and architect: senior strategic judgment with hands-on technical credibility.

Core Capabilities

Fractional CTO: advisory, org design, founder alignment

Platform Arch: event-driven, cloud-native, distributed systems

Cloud & Delivery: AWS, Azure, Kubernetes, CI/CD, DORA, IaC

AI/ML: LLM integration, model governance, custom pipelines

Security & Compliance: SOC 2 Type 2, DevSecOps, AML, fraud-governed

Expert Witness: software architecture, failure analysis, SDLC, AI/ML

Regulated Industries: fintech, insurtech, pharmatech, healthcare, payroll

Team Culture: hiring, career frameworks, developer experience

Expert Witness & Litigation Support

Software expert witness experience, including technical analysis, written expert reports, and litigation support in complex software-related matters.

- Software architecture & system design disputes
- System failure, outage, and root-cause analysis
- SDLC governance and engineering process deficiencies
- AI/ML integration risk and model governance
- Data integrity, loss, and transactional inconsistencies
- API and system integration failures
- Contractual disputes involving technical deliverables
- Available for plaintiff and defense counsel

Key Achievements

- Scaled engineering teams 5× and 4× through Series B/C — org design, hiring, and culture at every stage
- Custom LLM pipelines automating 1M+ insurance documents/year at 97%+ accuracy
- 40–50% faster release cycles via CI/CD automation and DORA-driven process refinement
- SOC 2 Type 2 in under 12 months; DevSecOps and QA practices established org-wide
- Mission-critical trading platform maintained since 2012 — $1B+ annual volume, AML and fraud-governed