

Brandon D. Phillips

Principal Software Engineer & Researcher

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PROFILE

Full-stack engineer and researcher. I keep complex software understandable as it grows: visible state, recoverable failures, systems the next person can maintain.

EXPERIENCE

Principal Software Engineer & Researcher

ByteQuilt

2023 - Now · Chicago

- Built from scratch: a multi-model database, a Redis alternative, a signal routing platform, a nature-inspired design system, and an autonomous multi-agent system
- 99.9% availability guarantees, composable or independent use

TypeScript · Next.js · Rust · WASM · N-API

Lead Software Engineer

Intercontinental Exchange (via SDS)

2024 - 2026 · Remote

- Control plane for an ETL pipeline streaming 10M+ daily records from 200+ MLS providers
- Cut client onboarding from 3–5 days to under 5 minutes

C# .NET 8 · PostgreSQL · OpenSearch · AWS

Lead Software Engineer / Technical Lead

DocuSign

2015 - 2023 · Chicago

- Led architecture for 6 core integrations (SharePoint, Dynamics 365, Power Automate, Outlook, Word)
- 200K+ customer orgs through growth from \$250M to \$2.5B ARR

C# .NET · Azure · React · Angular

Senior Software Engineer

Philips

2014 - 2015

- Clinician-facing telemetry interface syncing EMS and hospitals in near-real-time

C# .NET · FDA-regulated

Software Engineer / SDET

Microsoft

2010 - 2014 · Redmond

- End-to-end test automation for Windows Store search and catalog discovery

C# · Selenium · JavaScript

Software Engineer

Philips

2008 - 2010

- First role after BU, shipping software for FDA Class III medical devices

C++ · Perl · Enea OSE

EDUCATION

B.S. Computer Engineering

Boston University · 2004 - 2008

Anita Cuadrado Memorial Award for outstanding service as a Teaching Assistant

SKILLS

Core: C# / .NET, TypeScript / Node.js, SQL / T-SQL, Rust / Axum, Python / FastAPI, Go / Gin

AI & Agentic Systems: Agent eXperience Interface, Multi-Agent Orchestration, Agent Runtimes, Model Context Protocol, RAG & Vector Search, Prompt Engineering

Backend & Data: Redis, Distributed Systems, NoSQL, PostgreSQL / SQL Server, Event-driven Architecture, OpenSearch / Elasticsearch

Cloud & Frontend: React & Next.js, AWS, CI/CD, Azure, Angular, Observability

Current portfolio: bytesbybrandon.com