



Bryan Johnson

Staff Software Engineer

CONTACT

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SKILLS

LANGUAGES

- Java
- TypeScript
- JavaScript
- Python
- C++
- C#
- SQL
- Scala
- Groovy

FRONTEND

- React
- Vue.js
- AngularJS
- WebSocket

BACKEND & DATA

- Spring Boot
- REST APIs
- gRPC
- PostgreSQL
- MySQL
- ApacheMQ
- Spark
- Hadoop
- EMR
- Node.js
- AWS / GCP

DELIVERY

- Docker
- Terraform
- CI/CD
- Observability
- Agile / Scrum

LEADERSHIP

- Mentoring
- 1:1s
- Technical strategy
- Roadmap planning
- Code review

EDUCATION

M.S. Software Engineering
Johns Hopkins University, 2010

B.S. Computer Science
Susquehanna University, 2008

SUMMARY

Staff software engineer with 15+ years building distributed backend systems, real-time data platforms, and full-stack web products at startups. Comfortable owning the full technical lifecycle — architecture, delivery, testing, and production operations — and working closely with product, research, and data science teams to translate hard requirements into reliable software. Led the core product engineering team while staying hands-on as an individual contributor.

EXPERIENCE

Staff Software Engineer & Engineering Manager

Enveil · Fulton, MD · 2018 – Present

The core challenge was taking cryptographic research that had never been productized and building it into a reliable, production-grade distributed system with zero tolerance for correctness failures. The work required constant navigation between mathematical constraints and engineering pragmatism, in close collaboration with researchers.

- + 0-to-1 encrypted product strategy
- + Distributed encrypted search platform
- + Research-to-production system delivery
- + C++ performance and HE tuning
- + Encrypted workloads on Spark/cloud
- + Cross-functional researcher collaboration
- + Led core product engineering team
- + CI/CD, testing, observability rollout
- + Algorithm implementation / education
- + AI Tool Education

Lead Software Engineer

Blackpoint · Columbia, MD · 2013 – 2018

Blackpoint built real-time situational awareness tooling: a distributed backend, mobile clients, and on-prem customer deployments. I owned the full stack end-to-end: data ingestion, front-end SPAs, and the automation that got software onto customer hardware.

- + Real-time data ingestion platform
- + Full-stack SPA feature delivery
- + AWS automated deployment pipelines
- + Mobile release pipeline
- + SSL/RSA data protection
- + Cross-platform mobile development
- + GPS habit analytics platform
- + PostgreSQL query optimization
- + Pattern of Life Algorithm (US-9167389-B1)

Associate Professional Staff II

JHU Applied Physics Lab · Laurel, MD · 2008 – 2013

APL was early-career work on defense contracts, building analyst tools, simulations, and test suites where domain accuracy mattered as much as code quality. The biggest challenge was translating complex requirements (radar physics, multi-intelligence fusion) into software without losing fidelity to the underlying domain.

- + Radar simulation CLI rebuild
- + C#/WPF multi-source data visualizer
- + Mission-planning web analytics app
- + Groovy multi-system integration tests
- + JavaScript + C# backend web tools