Eric Blue

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Profile

With over 25 years of experience as an innovative technologist, I've honed a diverse skill set across industries ranging from dynamic startups to Fortune 500 companies.

My expertise lies at the intersection of technology and health, where I've specialized in Wearables and Mobile Health. Since 2022, I've been deeply engaged with AI and large language models (LLMs), uncovering new ways to drive creativity and innovation.

I excel in engineering leadership roles as a manager, hands-on technical lead, or architect. Throughout my career, I've led engineering and operations teams, seamlessly blending strategic vision with hands-on execution. Whether managing cross-functional teams or driving critical projects as a lead developer, my broad technical background—from enterprise architecture to network engineering—has been instrumental in orchestrating complex, multi-organizational technical integrations.

But I'm more than just a technologist. I'm a mentor, a strategic thinker, and an innovator, ready to bring your next project to life—whether through leadership or hands-on technical expertise.

For a comprehensive overview of my background, work experience, projects, and open source contributions visit my profile at https://about.ericblue.com

Roles & Areas of Expertise

Lead Software Engineer / Architect

I design and develop scalable web-based applications. My expertise includes building SaaS products, enterprise systems, and robust backend architectures. I focus on delivering high-performance, secure, and maintainable software solutions. Java/Spring (primary) and Python, Node / Next.js, React, Perl, and other tech stacks.

Engineering Manager

I lead engineering teams through all stages of development, ensuring projects are delivered on time and meet both technical and business objectives. My experience spans managing cross-functional teams in fast-paced environments, with a strong emphasis on maintaining high availability and performance in mission-critical systems.

Technical Product / Project Manager

I specialize in driving product development from concept to launch, with a strong foundation in Agile and Scrum methodologies. My approach ensures that technical solutions align with business goals, resulting in innovative products that meet market needs and exceed customer expectations. I have successfully managed projects involving cloud migrations, MVP development, and large-scale application deployments.

Technical Skills

– LANGUAGES

Java	Perl	Node.js	Python

– FRAMEWORKS / APIS

Spring / Spring Boot	Micronaut	Vert.x	GenAI - Langchain, Langchain4J, OpenAI

– FRONTEND

React	Next.js	JavaScript	TypeScript

– DEVOPS

CI/CD - Github Actions, Concourse CI, Gitlab CI/CD	Docker	Cloud - AWS, OpenShift, PCF, Kubernetes	Tooling - SonarQube, Snyk, Redhat ACS

– DATABASES

RDBMS: PostgreSQL, Oracle, MySQL	NoSQL: MongoDB	Vector: Pinecone, Weaviate	

– ARCHITECTURES

Microservices	Event-Driven	Monolith	SOA

Professional Skills

✓ Software Development	✓ Enterprise Architecture	✓ Engineering Leadership	✓ Project Management
✓ Product Management	✓ Agile + SDLC	✓ Process Improvement	

Work Experience

01/2023 – present
Irvine, CA

Principal Consultant
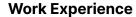**UpwardBit Ventures**

Founded UpwardBit Ventures to provide expert consulting in technology, innovation, and enterprise development & architecture. Partnered with companies across industries, from startups to Fortune 500 enterprises, delivering tailored solutions in software development, enterprise architecture, and cloud migrations.

- **Technical Program Management & Consulting:** Senior consultant and Technical Program Manager for the U.S. Department of Defense through Moonshot Labs. Led the development of innovative GEOINT architectures and systems, working on key programs and initiatives to drive mission success.
- **Cloud Migrations & Enterprise Architecture:** Designed and implemented cloud migration strategies for large-scale enterprises, optimizing infrastructure and enabling scalable, secure operations. Provided enterprise architecture solutions that aligned technical capabilities with business goals, ensuring seamless digital transformation.
- **Software Development & Product Management:** Led full-cycle software development projects (Java, Perl, Python, Node.js, React), from concept to deployment, across various industries. Managed cross-functional teams, utilizing Agile methodologies to deliver high-quality, on-time results.

05/2017 – 05/2024
Remote

Technology Consultant
Gigster

As a freelance technology consultant with Gigster, I've worked with both startups and large enterprises, taking on roles that span technical leadership, architecture, development, and DevOps, with a strong focus on cloud migrations.

- **Harley-Davidson Project:** Led the technical architecture and implementation of a cloud-native solution for Harley-Davidson, overseeing the migration of legacy systems to AWS. Developed and deployed containerized microservices using Docker and Kubernetes, enhancing scalability and performance.
- **Backend Development:** Leveraged Java and Spring to build robust backend systems and admin/ops tools, ensuring high availability and performance. Designed and implemented APIs, integrating with third-party services and optimizing for scalability.
- **Cloud Migrations & DevOps:** Spearheaded cloud migration projects, leveraging AWS and Azure to modernize client infrastructures. Implemented CI/CD pipelines, automated testing, and deployment strategies to streamline development processes and ensure continuous delivery.
- I**deation Workshops & Training:** Conducted business training and ideation workshops, helping startups with Business Model Canvas and providing technical and architectural vision. Led training seminars on AI/ML and CI/CD best practices, equipping teams with the knowledge to implement modern development and deployment strategies.
- **Technical Leadership:** Provided architectural guidance and hands-on development for complex projects, mentoring engineering teams and ensuring alignment with client business goals. Specialized in bridging the gap between development and operations, fostering a culture of collaboration and efficiency.

01/2014
Santa Monica, CA

CEO and Founder
ActiveOS

Founded ActiveOS, a cloud-based platform that aggregates and analyzes health and fitness data from wearables and geolocation sensors, providing insights for individuals, teams, and enterprises.

- **Architected and Developed the Platform:** Led the design and implementation of a scalable SaaS solution, integrating data from various wearable devices (e.g., Fitbit, Garmin, Hexoskin) through a custom plugin framework and SDK.
- **Innovative Projects:** Directed high-impact projects like Porsche's "Art of the Thrill" campaign, where ActiveOS processed biometric data in real-time, visualized on an interactive dashboard for marketing events.
- **Research Collaborations:** Partnered with academic institutions to develop solutions like MindStream, which streamed and analyzed real-time EEG data for neuroscience research.
- **Technical Leadership:** Managed the entire technical stack, from backend systems (Java, Spring) to frontend dashboards (Node.js, Bootstrap), driving the company's evolution from open-source beginnings to a commercial product.

07/2011 – 12/2015
Los Angeles, CA

Quantified Self - Los Angeles Event Organizer
The Quantified Self

Co-organized the Los Angeles Quantified Self Meetup, a community focused on self-tracking, biometrics, personal genomics, life-logging, and self-experimentation. Contributed to the global Quantified Self movement by organizing events, speaking at international conferences, and leading breakout sessions.

Conference Speaking Engagements:

October 2013 - San Francisco: "What's Up with Where?" - Discussed the challenges and tools in location-aware services as everything becomes geocoded.

May 2014 - Amsterdam: "Virtual Reality + QS: Ourselves, Virtually" - Explored the intersection of VR and Quantified Self, including biometric data visualization using Oculus Rift.

July 2014 - San Francisco: "Best Practices in QS APIs" - Co-led a session on best practices for developing and integrating APIs for Quantified Self applications and services.

Work Experience

01/2010 – present

Open Source Contributor
Open Source

My open-source work spans a wide range of tech areas, from home automation and IoT to the Quantified Self movement and the latest in GenAI and LLMs. I've tackled projects across these domains, combining innovation with practical solutions. Whether it's integrating AI into everyday tools, building systems to enhance personal well-being, or exploring large language models, my work reflects deep curiosity and a hands-on approach.

Github: https://github.com/ericblue

Featured Open Source Projects: https://about.ericblue.com/#opensource

07/2001 – 02/2013
Los Angeles, CA

Director of Systems Development, Architecture, and R&D
Boingo Wireless

Engineering leader managing cross-functional teams, driving technical innovation, and overseeing system architecture. As a Lead Developer, Solution Architect, and Director in Systems Development and R&D, I played a pivotal role in Boingo's growth, including contributing to its successful IPO in 2011.

- **Leadership & Team Development:** Led and mentored teams of 10+ engineers, creating a software quality improvement (SQI) initiative that introduced CI/CD practices, and drove the adoption of Java/Spring, which became central to Boingo's backend systems.
- **System Architecture & Innovation:** Spearheaded the development of Boingo's core systems, including RADIUS, mediation, and location-based services. Architected Boingo's mobile configuration and provisioning platform and led the integration of a major acquisition.
- **Research & Development:** Co-authored a patent for dynamic wireless network discovery (US 8,831,660). Focused on emerging technologies and Big Data initiatives, guiding the transition to JSON/MongoDB for customer and location services.
- **Security & Compliance:** Directed PCI compliance efforts, performing security audits and vulnerability assessments to ensure Boingo's network and systems met rigorous security standards.
- **Hands-On Development & Technical Leadership:** As a Lead Developer, I was instrumental in architecting and developing key projects, including Boingo's Hot Spot in a Box—a groundbreaking embedded solution for Wi-Fi access point integration. Additionally, I played a central role in the development of Boingo's original operational tools, carrier integration systems, and the next-generation mobile provisioning platform, showcasing my deep technical expertise in Java, Perl, and C.

10/1995 – 07/2001

Early Career Highlights
Held key roles in system engineering, network administration, and software development across multiple ISPs and as the founder of Star Computing Solutions. More details available on LinkedIn.