JOY BISWAS

Software Architect | Full-Stack Engineer | Engineering Leader

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17+
Years Experience
25+ Projects
10+ Teams Led

SUMMARY

Software Architect and Technical Engineering Leader with delivering end-to-end, production-grade platforms as both a sole individual contributor and a cross-functional team leader. Track record spans Pharma, FinTech, InsurTech, AI, HR-Tech, Supply Chain, eCommerce, Blockchain, MLOps and many more — owning the full software delivery lifecycle from discovery and estimation through DDD/EDA-based architecture, hands-on development, DevOps, and post-launch support. Brings strategic depth in Domain-Driven Design, Event-Driven Architecture, microservices, and AI-integrated platform design alongside proven delivery management: sprint planning, roadmap ownership, capacity planning, cross-team coordination, and stakeholder alignment. Available for Staff/Principal Architect, Engineering Director, or Senior Engineering leadership roles.

EDUCATION

National Institute of Technology (NIT) Silchar, India   *2004 – 2008*
Bachelor of Technology — Computer Science & Engineering

Holy Cross School, Agartala, India   *2002 – 2004*
Indian Certificate of Secondary Education [ICSE + ISC]

EXPERTISE

Pharma & Drug Quality	Supply Chain & eCommerce	FinTech & Wealth Mgmt	InsurTech
AI / MLOps & Blockchain	Healthcare Tech	DDD / EDA Architecture	Delivery Management
HR-Tech & Recruitment	Full Software Lifecycle	Strategy / Planning	Agile & Scrum Mastery

SKILLS

Architecture	Domain-Driven Design, Event-Driven Architecture, Microservices, CQRS/Event Sourcing, API Design, System Scaling, ADRs, CI/CD
Frontend	Angular / AngularJS, React / Next.js, TypeScript, JavaScript, HTML5, CSS3, PWA, Socket.IO, RxJS, Bootstrap
Backend	Node.js, NestJS, ExpressJS, Python, Java / J2EE, GraphQL, REST, SOAP, RabbitMQ, Kafka, Redis
AI / ML	LLM Integration (GPT-4), AI platform, ML pipeline, RAG patterns, MLOps workbench, Blockchain provenance
Cloud & DevOps	AWS, Docker, Kubernetes, Jenkins, GitHub Actions, Serverless, Firebase, Nginx
Databases	MongoDB, PostgreSQL, MySQL, SQL Server, Redis
Mobile	Flutter, Android (Native), iOS (Firebase / WebRTC)
Delivery	Agile / Scrum Master, Roadmap & Sprint Planning, Estimation, Capacity Planning, Stakeholder Management

AWARDS & RECOGNITION

🏆 **Gold Award — Bank of America**
Best internal innovation for Points Reward System gamification platform

🎓 **Best Facilitator — TCS Learning & Development**
Led technology training sessions for engineers and college faculty

🏅 **Best Team Innovation — TCS / AmerisourceBergen**
Recognised by client for business value and innovation delivery

🖊 **Teacher Thanks Award**
Sessions at multiple colleges on trending technologies

OPEN SOURCE & COMMUNITY

▸ Active Stack Overflow contributor and GitHub open-source contributor — github.com/joyblanks.

▸ Published: npm CLI package for SharePoint framework; Angular image-fallback plugin; React functional programming framework used in production teams.

▸ Personal projects: Android multi-AC controller; Google Drive-backed group expense tally with automated monthly email settlement.

▸ Conducted workshops at multiple colleges and TCS corporate L&D sessions throughout career.

PROFESSIONAL EXPERIENCE

Freelancer • JoyB Works — Software Technical Architect & Full-Stack Engineer (IC + Lead)   *Feb 2020 – Present*
Agartala, India · Remote
Clients: Roche · HireSense.ai · taptic.ai · JK Tech · Stefanini Group · Zestify

▸ Roche (Pharma, 2020–2024): Single-handed architect and engineer for 4+ years across multiple production platforms — drug quality assurance, manufacturing compliance, and product launch readiness. Owned full cycle: client discovery, DDD-based system design, estimation, hands-on Angular/Node.js/Python/AWS build, deployment, and stakeholder reporting.

▸ HireSense.ai (HR-Tech, active): Sole architect designing AI-driven talent intelligence SaaS — real-time demand forecasting, compensation benchmarking, employer brand analytics, multi-channel recruitment marketing engine. TypeScript, Angular, NestJS, AI/ML Cloud.

▸ taptic.ai (AI Recruitment, 2024): Architected candidate-matching pipeline, pre-vetting workflows, and event-driven backend for emerging-tech recruitment platform. Led architecture definition and coordinated engineering teams. NestJS, Angular, Cloud.

▸ JK Tech Tenure 1 (MLOps, Jun–Nov 2022): Development Lead — visual drag-and-drop MLOps workbench for ML engineers to compose, reuse, and fine-tune models; eliminated rebuild-from-scratch cycles. React, NestJS, GraphQL, ReteJS.

▸ JK Tech Tenure 2 (Blockchain + MLOps, Jun 2023–Feb 2024): Technical Architect — extended platform with blockchain-backed asset provenance for ML model lineage tracking across enterprise AI pipelines.

▸ Project Management SaaS (2020–2023): Sole IC — designed and delivered a gamified, configurable project management tool end-to-end including architecture, frontend, backend, CI/CD (Docker, Jenkins). Angular, NestJS, MongoDB.

▸ Zestify Healthcare App (Mumbai, 2021): Solo engineer for iOS/Android mental health app — video calling (WebRTC), AI-assisted diagnosis, appointment booking, events/seminars. Flutter, Firebase.

▸ Delivery management across all engagements: scope definition, effort estimation, sprint ceremonies, release planning, and direct client communication as Scrum Master and IC.

Bank of America, Merrill Lynch — UI Architect — Global Wealth Management   *Mar 2016 – Jun 2018*
Mumbai, India

▸ Owned UI architecture for Global Wealth Management System — tracking leads, client money and investments, routing to Sales Reps for financial advisory. Defined Angular component design system and frontend coding standards adopted across trading, compliance, and consumer banking teams.

▸ Led architecture governance: design reviews, standards documentation, cross-team alignment with engineering leads; mentored and upskilled junior engineers into Angular architecture practitioners.

▸ Individual contributor on Gold Award-winning innovation: designed and delivered the "Points Reward System" gamification platform from concept to production, recognised as best internal initiative at Bank of America.

▸ Technology: Angular 6, Node.js, Salesforce REST, Java, Socket.io, Gulp, Jasmine/Karma.

Turtlemint — Senior Software Engineer   *Sep 2018 – May 2019*
Mumbai, India

▸ Individual contributor building insurance distribution and advisor platform — comparison engines, product recommendation flows, and agent portals powering millions of policy purchases at consumer scale.

▸ Contributed to PWA strategy and scaling architecture discussions; worked across web and mobile stacks. PWA, React, Angular, Node.js, Java Play, MongoDB, AWS, Jenkins.

Tata Consultancy Services — Associate Consultant → Technical Lead   *Aug 2008 – Mar 2016*
Mumbai, India | Chesterbrook, PA, USA

▸ Supply Chain & eCommerce platform (AmerisourceBergen, Fortune 10 pharma distributor): Progressed from IC developer to Tech Lead. Built a complete B2B eCommerce and supply chain management portal — ordering, returns, claims, billing, payments, user administration — on SAP NetWeaver ISA/XCM.

▸ Led delivery management for a cross-functional team of 8+ engineers: sprint planning, capacity planning, onshore/offshore coordination, stakeholder management at Chesterbrook, PA. Drove design reviews and architecture decisions for SAP NWDI build/deploy pipelines.

▸ Architected high-volume reporting infrastructure processing up to 1 million daily orders — SQL Server stored procedures, JACL pool schedulers, XSL/XML data pipelines. Contributed to SAP eCommerce platform architecture (pricing engines, custom storefronts, order management workflows).

▸ Awards: Best Team Innovation (AmerisourceBergen client) and Best Facilitator (TCS L&D) for training sessions to engineers and college faculty.

▸ Technology: Java/J2EE, JSF, SAP NetWeaver 7.0/7.3, Angular, JavaScript, jQuery, SQL Server, WebSphere 6.1.