



Sudip Bhattacharyya

Senior Software Architect | AI & Data Systems Consultant | Educator

Kolkata, India

Email: sudipb001@gmail.com

LinkedIn: <https://www.linkedin.com/in/sudip-bhattacharyya-627219b0/>

GitHub: <https://github.com/sudipb001>

Professional Summary

Senior software architect and consultant with **30+ years of hands-on experience** designing, building, and delivering **business-critical software systems** across finance, accounting, retail, ERP, POS, analytics, and AI-enabled platforms. Known for translating complex business requirements into **simple, reliable, and maintainable systems**.

Strong expertise in **UI-intensive applications, reporting engines, dashboards, data pipelines, and serverless architectures**. Equally comfortable working as an **individual contributor, technical lead, consultant, or educator**. Proven experience with European enterprise clients, startups, and academic institutions.

Core Expertise

- Software Architecture & System Design
 - AI-enabled Business Applications
 - Reporting Engines, Dashboards & Analytics
 - Serverless-First Architectures
 - Frontend & Cross-Platform UI Development
 - ERP, POS & Financial Systems
 - Developer Education & Technical Training
-

Technology Stack

Languages: JavaScript, TypeScript, Go, Python, Swift, C++, Harbour / xHarbour, Visual FoxPro

Frontend: React, Next.js, Vue.js, Tailwind CSS, SwiftUI, Flutter

Backend / Serverless: Supabase, Firebase, Appwrite, FastAPI, Node.js

Databases: PostgreSQL, SQLite, TimescaleDB, Vector Databases

AI / Data: LLMs, LangChain, LangGraph, LangSmith, RAG pipelines

Tools & Platforms: Docker, AWS Amplify, Retool, Appsmith, Streamlit, FlutterFlow, Bubble

Professional Experience

SOCS BVBA — Mol, Belgium

Senior Software Developer | 2010 – July 2024

- Core contributor to **Winfakt!**, a multilingual POS and financial system widely used across Belgium and the Netherlands.
 - Designed and implemented a **full reporting engine** including print, preview, export, and report-writer libraries.
 - Built **data-heavy analytics dashboards and workflow-driven UI systems** using JavaScript-based frameworks.
 - Developed backend fixes and a **car registration system** for government-integrated workflows.
 - Created **macOS and iOS applications** using Swift and SwiftUI, integrated with AWS Amplify.
 - Contributed to no-code and low-code platforms and internal tooling.
 - Provided long-term production support and contributed to Visual Harbour documentation.
 - Trusted long-term contributor (14 years), working closely with company leadership and business stakeholders.
-

Uplatz — United Kingdom

Video Course Creator, Instructor & Software Architect | July 2024 – Present

- Design and deliver **professional video courses** with slides and transcripts on advanced software and AI topics.
 - Subjects include: LLM Engineering, LangChain, LangGraph, Vector Databases, DevOps, FastAPI, PostgreSQL, Docker, JavaScript, TypeScript, React, Next.js, Vue.js, Flutter, and more.
 - Architected and developed an **AI-based ERP web application**:
<https://www.growmybusinessai.com>
-

Independent Software Practice — India

Proprietor / Software Consultant | 1994 – 2010

- Delivered **custom business software solutions** across manufacturing, FMCG, finance, retail, and non-profit sectors.
 - Notable clients and projects include:
 - Sales analysis and ISO-9001 procurement systems for manufacturing organizations.
 - Customized solutions for FMCG distributors and cooperatives. Created official software solution for the wholesale distributors of GCMMF Ltd (Amul) for their West Bengal operations.
 - Create MIS and Sales Analysis software for Caplet India Ltd (a big pharma house).
 - Created software for Medicine distributors.
 - Membership management, stock control, and accounting software.
 - Built applications using **Harbour/xHarbour, VFP, C/C++**, and **MiniGUI**.
-

Nitva Impex Pvt. Ltd. — India

E-Commerce Project Coordinator | 1998 – 1999

- Led development of a full-scale **early-stage e-commerce platform** using CGI-Perl, Java, and JavaScript.
 - Coordinated between business stakeholders and technical teams.
-

BICT — Laketown, Kolkata, India

Software Developer | 1992 – 1994

- Developed financial accounting software for DOS and early Windows environments.
 - Worked with CA-Clipper, Novell NetWare, and legacy systems.
-

Teaching & Training Experience

- **Swami Vivekananda University** (Mar 2025 – Apr 2025): Python Programming for B.Tech students
 - **Vidyastu, India** (Apr 2025 – May 2025): Full-Stack Web Development (MERN stack)
-

Education & Certifications

- B.Sc. (Hons) in Chemistry — University of Calcutta
- NIIT — Software Engineering Training
- Certified Webmaster — WWWI (Geneva)

- Computer Society of India (Calcutta Chapter)
 - IGNOU
-

Professional Profile

A calm, reliable senior technologist who values **clarity over complexity, delivery over hype, and long-term maintainability over short-term shortcuts**. Comfortable operating at the intersection of **technology, business, and education**.

Selected Endorsement:

“Highly recommended as a software developer, IT manager, teacher, or contractor. A superb team player with excellent communication skills.”

— **Patrick Mast, CEO, SOCS BV (Belgium)**

Professional Memberships

Associate Member — Indian Council for Technical Research & Development (ICTRD), India
Working Committee Member