

BIBEK GUPTA

Senior Software Engineer | Technical Lead — Backend, .NET & System Architecture

Kathmandu, Nepal · +977 9845910191 · guptabibek166@gmail.com

linkedin.com/in/itsmebibek · github.com/guptabibek

SUMMARY

Senior software engineer and technical lead with 8+ years building production SaaS, ERP, and enterprise systems on C#/.NET Core, SQL Server/MySQL, and Azure. Currently Team Lead on the ground-up rewrite of ERISApedia, an ERISA compliance-research platform under Ascensus, directing a team of 7–8 engineers migrating a legacy PHP codebase to a modern .NET Core and Angular application across Azure and Google Cloud Platform. Previously delivered senior engineering and architecture on PensionPro, a pension-administration SaaS used by 400+ U.S. third-party administrators collectively managing 230,000+ retirement plans. Depth in REST API design, multi-tenant SaaS architecture, event-driven and asynchronous processing, and database performance, with hands-on ownership of CI/CD, Docker, and Linux/Nginx infrastructure. Set engineering standards, mentor developers, and collaborate daily with U.S.-based stakeholders and engineers in compliance-regulated domains.

TECHNICAL SKILLS

Languages: C#, TypeScript, JavaScript, SQL, PHP

Backend & APIs: .NET, .NET Core, ASP.NET Core, Web API, Entity Framework Core, Dapper, Node.js, Laravel, REST APIs, WebSockets, asynchronous & background processing

Architecture: System architecture, technical design, legacy modernization & platform migration, microservices, serverless, event-driven processing, multi-tenant SaaS, high-availability systems, integration architecture, API design, database design

Databases & Caching: SQL Server (MSSQL), MySQL, PostgreSQL, Redis

Cloud: Microsoft Azure (Functions, Logic Apps, Event Grid, Service Bus, App Services, Storage, Azure AD), Google Cloud Platform (GCP)

DevOps & Infrastructure: Docker, Azure DevOps Pipelines, GitHub Actions, CI/CD, release management, Linux server administration, Nginx / reverse proxy, monitoring & logging

Frontend: Angular, React, TypeScript, PrimeNG, Ag-Grid, QuillJS

Engineering Practice: Technical leadership, team leadership, code review, coding standards, mentoring, requirements analysis, distributed collaboration with U.S. teams

PROFESSIONAL EXPERIENCE

DolphinDive Technology — Senior Software Engineer, Technical Lead

Jun 2022 – Present

Engineering team for U.S. retirement-industry SaaS products under Ascensus, the largest U.S. retirement plan administration firm.

ERISApedia — ERISA compliance-research platform

Nov 2025 – Present

- Team Lead for the ground-up rewrite of ERISApedia, directing 7–8 engineers replacing a legacy core PHP application with a modern web platform built on .NET Core, Angular, and MySQL.
- Own target architecture and technology selection for the rewrite, including the migration path off the legacy PHP system.
- Design the rewritten platform's cloud architecture across Microsoft Azure and Google Cloud Platform (GCP).
- Partner with U.S.-based stakeholders and a senior engineer on the U.S. side on architecture and technical direction, keeping the rewrite aligned to product and compliance requirements.

PensionPro — U.S. SaaS pension-administration platform

Jun 2022 – Nov 2025

- Delivered senior engineering and architecture on PensionPro, used by 400+ third-party administrator firms collectively administering 230,000+ retirement plans, owning technical design decisions across compliance, workflow automation, and client management.
- Architected and shipped Azure serverless components — Functions, Logic Apps, and Event Grid — moving long-running and integration-heavy work off the request path so background processing scales independently of user traffic.
- Designed backend services and REST APIs in C#/.NET Core with Entity Framework Core over SQL Server, applying asynchronous processing and message-based decoupling via Azure Service Bus for resilient workflows under load.
- Established the platform's CI/CD and release strategy on Azure DevOps — build and release pipelines, environment promotion, deployment gates — shortening release cycles and making SaaS updates routine and low-risk.
- Set and enforced engineering standards — code review, design review, coding conventions — and mentored engineers through those forums, raising codebase consistency and building the team's capacity to take architectural work independently.
- Served as primary engineering liaison to U.S.-based stakeholders and product owners, translating pension-compliance requirements into technical designs and defending trade-offs on scope, sequencing, and risk.

Bharuwa Solutions — Senior Software Engineer (Part-Time)

Jun 2022 – Jun 2025

India-based enterprise software product company — ERP, fintech, distribution, and agritech platforms.

- Architected QueryGen, an intelligent query-generation tool that cut database query time for analysts and eliminated hand-written SQL for routine analysis.
- Re-engineered core ERP modules — accounting, payroll, invoicing — for scalability and multi-tenant operation, enabling one deployment to serve multiple client organizations under isolated data boundaries.
- Designed cloud-based workflows automating GST reporting and filing against the government e-portal, converting a manual compliance process into an automated pipeline.
- Engineered inventory and logistics tracking for a Warehouse Management System, including multi-level category hierarchies for complex stock structures.
- Ran requirements directly with clients — scoping problems, proposing architectures, optimizing workflows — owning the path from business need to delivered system.

IMS Software Pvt. Ltd. — Software Engineer

Jun 2019 – May 2022

Retail and distribution platforms deployed across 20,000+ businesses and 100,000+ terminals in Nepal, India, and Southeast Asia.

- Engineered a custom ERP for Patanjali Ayurved (India), extending the distribution platform to one of India's largest FMCG networks — the firm's flagship cross-border enterprise implementation.
- Built and owned production retail POS and distribution management systems covering inventory, customer management, sales reporting, and multi-level distribution hierarchies.
- Extended the POS into back-office finance by integrating accounting workflows with the accounting team, closing the gap between transactional and financial data.
- Administered the production servers behind these platforms — provisioning, maintenance, incident troubleshooting — taking operational ownership alongside development.

Softweb Developers — Software Engineer

Apr 2018 – Mar 2019

- Designed the front-end architecture and a reusable component library, standardizing UI patterns and reducing duplicated implementation across applications.
- Modeled and optimized relational database schemas for query performance, and implemented WebSockets-based real-time communication to add push-driven behavior to request-response applications.

SELECTED PROJECTS

- **QueryGen** — Intelligent query-generation engine that cut database query time for analysts and eliminated hand-written SQL for routine analysis.
- **Classmonk** — C2C learning marketplace combining Stripe payment processing, WebSockets real-time communication, and location-based geospatial search.
- **Learning Management System** — Course creation, assessments, and progress tracking on a role-based access model spanning instructors, learners, and administrators.

EDUCATION

BSc Computer Science, Tribhuvan University — 2018