

Bhupendra Singh

AI Evangelist · Senior Technical Program Manager · Senior iOS Engineer · Full Stack Engineer

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English · Japanese (Business) · Hindi

PROFESSIONAL SUMMARY

Senior TPM, iOS lead, and full-stack engineer with **15+ years** across payments/finance (7 years) and e-commerce (8 years). Currently driving cross-functional programs at Fast Retailing (Uniqlo/GU/PLST) across 30+ microservices and multiple global regions - zero-major-incident launches and 40+ feature-flag rollouts. Applies AI across the SDLC: LLM-assisted requirements and design, AI pair-programming and code review, automated test generation, and AI-augmented release and incident analysis. Builds AI-first side projects, including an LLM-driven scholarship search engine (semantic search + structured extraction). Japan Patent holder. IIT Delhi alumni (M.Tech, Algorithms).

CORE COMPETENCIES

LLM APIs & Prompt Engineering	RAG & Semantic Search	AI Agents & MCP	AI-Assisted SDLC	Technical Program Management
Global Release Management	iOS / Mobile Platform	Microservices Coordination	Feature Flag Rollouts	

WORK EXPERIENCE

Fast Retailing Group (Uniqlo, GU, PLST) - Tokyo, Japan

Sep 2023 - Present

Technical Program Manager, All Regions

- Senior TPM for Uniqlo, GU, and PLST across all regions (Japan, US, ASEAN), overseeing complex cross-team programs within e-commerce.
- Leading multiple concurrent projects across **30+ microservices teams** in the e-commerce department.
- Driving global deployment management, release coordination, and **0-major-incident global launches**.
- Established feature flag rollout processes for **40+ platform features** across the organisation.
- Led advanced task planning tooling and cross-team communication processes to improve delivery velocity.
- Enforced planned downtime limits across multiple global regions with zero SLA breaches.
- Tracked development progress across all teams; conducted incident analyses and implemented preventive measures.

Fast Retailing Group - Tokyo, Japan

Apr 2022 - Mar 2023

Mobile App Development Lead, All Regions

- Led iOS and Android development for Uniqlo/GU smartphone apps across all global regions.
- Primary contact for troubleshooting; worked directly with iOS/Android engineers on technical challenges.
- Collaborated with stakeholders, PMs, QA, and operations to deliver new features on schedule.
- Senior iOS Engineer responsible for distributing the Uniqlo iOS app to Japan, US, and ASEAN markets.

Moneytree K.K. - Tokyo, Japan

Jun 2017 - Mar 2022

Senior Mobile Engineer

- Mable (MUFG):** Led architecture and development of a financial asset management app for Mitsubishi UFJ Financial Group. Maintained a **4.5-star App Store rating** since launch in Aug 2020.
- Moneytree Consumer iOS App: Apple Editors' Choice;** featured on the App Store for rapid adoption of latest iOS technologies and biometric authentication. Delivered iOS12 DragDrop, Receipt Scanning, Automated Expenses, Subscriptions, and Campaigns features.
- MTLink iOS SDK:** Owned end-to-end; SDK enables Moneytree clients (Mizuho, MUFG, others) to integrate Moneytree authentication and API clients. Near-zero defect rate.

Origami Inc. - Tokyo, Japan

Sep 2015 - Jun 2017

Senior Mobile Engineer (*Company acquired by Merpay*)

- Joined when Origami Pay was about to launch with 6-digit manual-input offline payments. In the first week, prototyped **QR code payment** - which became Origami Pay's primary payment technology at launch.
- **Result: 99%+ of users chose QR code over manual input.** Origami Pay became Japan's first mobile payment app; also received Apple Editors' Choice designation.
- Prototyped and delivered **Origami Beacon Pay** using iBeacon for frictionless, scan-free payments.
- Built Origami shopping cart from scratch with "Buy Now" and "Add to Cart" UX; introduced A/B testing with gradual rollouts.

Rakuten Group Inc. - Tokyo, Japan

Jan 2011 - Aug 2015

Mobile Engineer / Backend Engineer

- Technical lead on **Rakuten Ichiba** iOS app (major e-commerce); worked across Ichiba, Gateway, and Shashinkan Photo apps.
- Developed and managed **Rakuten Shared iOS Library** (CocoaPod), eliminating redundant API development across multiple Rakuten apps.
- Built **Rakuten Gateway** universal iOS app - highly dynamic, with remote-configuration-driven service addition without app updates.
- Designed and developed the **Rakuten Auction centralized push notification system**: device registry, queue management, multi-client dispatch (iOS, Android, Windows, email, Facebook).
- Invented the **photo auto-layout algorithm** for Rakuten Shashinkan photobook - **Patent granted by Japan Patent Office.**
- Managed Gerrit code review server for clean Git history across engineering teams (Jun 2014 - Aug 2015).

SELECTED PROJECTS

AI-Based Scholarship Search Engine (*Hobby, 2025-Present*)

AI-assisted scholarship discovery and matching system that ingests scholarship listings (MEXT, JASSO, JSPS, LOTUS Fellowship, others), normalizes eligibility criteria via LLM-driven extraction, and ranks opportunities against a candidate profile. Combined semantic search over a scholarship corpus with rule-based eligibility filters. Authored a guide to the JSPS Postdoctoral Fellowship for international researchers.

Stack: Next.js (App Router), TypeScript, Supabase Postgres, Vercel, LLM APIs (prompt engineering, structured output, embeddings), automated ingestion cron.

JP Patent - Algorithm for Automatic Layout of Photos in Photobook

Designed an algorithm that automatically generates a timeline from a set of photos and arranges them in a user-selected photobook layout with a dynamic number of photos per page. **Granted by Japan Patent Office.**

Origami Pay - QR Code Payment

Prototyped in week 1 of joining; became Origami Pay's primary payment technology at launch. **99%+ user adoption**; Japan's first mobile payment app; Apple Editors' Choice.

Mable (MUFG) - Financial Asset Management App

Led architecture and development for Mitsubishi UFJ Financial Group. **4.5-star App Store rating** sustained since Aug 2020. Navigated iOS 11.2 minimum version constraint as required by the bank.

EDUCATION

M.Tech, Computer Applications - Algorithms · Indian Institute of Technology (IIT), Delhi

2008 - 2010

Top 5 universities in India.

B.Tech, Computer Science & Engineering · IEC-CET, Greater Noida, India

2004 - 2008

SKILLS

AI & LLM Engineering: LLM APIs (OpenAI, Anthropic Claude, Gemini), Prompt Engineering, Structured Output, Function/Tool Calling, Embeddings, Semantic Search, RAG (Retrieval-Augmented Generation), Vector Databases (pgvector), AI Agents, MCP (Model Context Protocol), AI-Assisted Coding (Claude Code, Cursor, GitHub Copilot), AI Pair-Programming, AI Code Review, LLM-Driven Extraction Pipelines, AI-Augmented SDLC, Vercel AI SDK

Program & Project Management: Technical Program Management, Agile, Scrum, Waterfall, JIRA, Confluence, Gantt Charts, Risk Management, Stakeholder Engagement, Release Management, Feature Flags, Cross-functional Coordination

Mobile Development: Swift, Objective-C, RxSwift, RxCocoa, UIKit, CoreData, Sprite-Kit, CocoaPods, iBeacon, BLE, XCTest, VIPER, MVVM, Storyboards, Auto Layout, TestFlight, iTunes Connect

Web & Full-Stack: Next.js (App Router), React, TypeScript, Supabase, Neon Postgres, Vercel, Vercel Blob, Clerk Auth, Resend, GA4, Google Search Console, SEO (JSON-LD, OpenGraph, sitemaps)

Backend & Web (legacy): JavaScript, PHP, Zend, MySQL, REST API, JSON/XML, Apache, Perlbal, Cronjob, i18n, Facebook Graph API, Parse

Tooling & Platforms: Xcode, Git, SVN, Bitbucket, GitHub, Gerrit, Postman, Charles, Google Workspace, Microsoft Office, Keynote