

PARTHO SAROTI KAR

Full-Stack Software Engineer | PHP, Laravel, React & AI-Assisted Development

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SUMMARY

Full-Stack Software Engineer with 9 years of building production-grade PHP/Laravel backends and modern JS frontends (React, Next.js). Proficient at writing production code both manually and with AI coding agents (Claude Code, Cursor, GitHub Copilot), with strong judgment to review, refactor, and own AI-generated output. Experienced in RESTful API design, relational database optimization (MySQL/PostgreSQL), Redis caching, secure coding (OWASP), and cross-functional team collaboration. Actively integrates LLM APIs and explores AI-powered features in personal projects.

TECHNICAL SKILLS

Backend: PHP 8, Laravel (Eloquent ORM, Sanctum, Passport, Queues, Task Scheduling, Broadcasting, Horizon)

Frontend: JavaScript, TypeScript(Basic), React, Next.js, Tailwind CSS, HTML5, CSS3

Databases: MySQL, PostgreSQL, Redis — Schema Design, Query Optimization, Indexing, Complex Queries

AI & LLM: Claude Code, Cursor, GitHub Copilot, LangChain(Basic), pgvector(Basic), LLM API Integration

Cloud & DevOps: AWS (EC2, S3, RDS, SQS), Docker, GitHub Actions, CI/CD Pipelines, DigitalOcean

Security: OWASP Top 10, Input Validation, Auth/Authorization, Rate Limiting, Secrets Management

Testing & QA: PHPUnit, TDD, Code Reviews, Git branching, PR workflows

EXPERIENCE

Senior Software Engineer

Mar 2024 – Present

Prediction Infotech Limited – Dhaka, Bangladesh

- Build and maintain full-stack SaaS HRMS (Laravel + React/Next.js) for 10+ enterprise clients, writing production code with AI coding agents (Cursor, Claude Code) while critically evaluating output for correctness and security.
- Cut API response time 70% (400ms → 120ms) through query optimization, indexing, and Redis caching; resolved 20K+ concurrent request bottleneck using async queue processing with idempotency and ACID transactions.
- Integrated LLM-based automation APIs for document processing; built Python biometric SDK replacing unreliable vendor SDK with a fully automated server-side pipeline.
- Lead code reviews, enforce OWASP-aligned secure coding practices, and mentor 4 developers in Agile/Scrum workflow.

Software Engineer – Backend & System Integration

Feb 2023 – Jan 2024

Singularity Limited – Dhaka, Bangladesh

- Built Laravel APIs for a real-time GPS tracking platform; optimized complex PostgreSQL queries across millions of rows using RabbitMQ async processing, Redis caching, and N+1 fixes — response times from seconds to milliseconds.
- Managed AWS + DigitalOcean infrastructure with CI/CD pipelines and zero-downtime deployments.

Senior Software Engineer

Oct 2019 – Dec 2022

Bohon Bangla Limited – Dhaka, Bangladesh

- Led backend of Parcel Magic delivery platform — designed 20+ RESTful API endpoints integrating courier services (RedX, eCourier) via webhooks; integrated Stripe and PayPal payment gateways.

Software Engineer

Mar 2016 – Jun 2019

Far-East IT Solutions Ltd – Dhaka, Bangladesh

- Built enterprise HRMS applications for 3+ clients using PHP, Laravel, MySQL; improved page load times by 50% through query optimization and caching.

PROJECTS

Multi-Vendor Marketplace [Live Link](#)

A full-featured marketplace supporting multiple vendors with independent storefronts, role-based admin and vendor dashboards, product management, and order tracking.

— Laravel, MySQL, Docker, role-based dashboards, VPS deployed.

Inventory Management System [Live Link](#)

Inventory tracking application with secure authentication, real-time stock management, and an intuitive dashboard. Built with service-repository pattern and fully containerized.

Laravel, MySQL, Docker

AI Budget App (WIP) — FastAPI + Next.js + PostgreSQL + LangChain/pgvector — RAG-based AI insights

EDUCATION & DEVELOPMENT

B.Sc. Computer Science & Engineering — University of Asia Pacific, Dhaka, 2015

DevOps & Cloud Engineering Bootcamp — Docker, Kubernetes, CI/CD, AWS (Bongo Dev, 2024)

Agentic Software Development AI Conference, Dhaka — AI-assisted engineering practices