

Hayatunnabi Nabil

Software Engineer

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PROFILE

Full-Stack Software Engineer with 5+ years of experience designing and delivering scalable, business-critical applications across restaurant POS, CRM, ERP, workforce management, e-commerce, accounting, and VAT-compliance domains. Specialized in PHP, Laravel, JavaScript, and TypeScript, with strong expertise in Vue.js, React, Next.js, NestJS, REST and GraphQL APIs, WebSockets, Redis, queues, caching, and multi-tenant architecture. Experienced in building secure payment workflows, real-time device synchronization, third-party integrations, Dockerized cloud infrastructure, CI/CD pipelines, and production monitoring with Prometheus and Grafana. Active contributor to major open-source PHP and Laravel projects, recognized for solving concurrency, performance, reliability, localization, and framework-level issues. Committed to translating complex business requirements into clean, maintainable, high-performance software solutions.

PROFESSIONAL EXPERIENCE

Partnered Founding Lead Full-Stack Engineer

Aseria SA 🌐

11/2025 – Present

Aseria RMS — Multi-Location Restaurant POS & Management Platform 🌐

1242 Satigny,
Switzerland

- Real-time device sync with acknowledgement + auto-retry across all devices using socket with **socket.io**
 - Redis-backed caching, queues, session management, and real-time event coordination for high-performance operations
 - Full POS & payment flows with idempotency and reconciliation
 - X/Z financial reporting with configurable breakdowns
 - Kitchen Display System with auto-assign workflows + ESC/POS printing, E-Kiosk with shift & cash-register management
 - Menu Hub with a complete modifier-system overhaul
 - APK / device version management with real-time rollout
 - Multi-tenant architecture + self-hosted WebSocket broadcasting server with **socket.io**, Dockerized self-hosted VPS infrastructure with fully automated deployment, **Prometheus** + **Grafana** monitoring/observability dashboards
 - CI/CD with lint-gated deployments and multi-language i18n
- Staging:** <https://stg.aseria.ch> 🌐
- API Documentation:** <https://stg.aseria.ch/docs/api> 🌐

Software Engineer

Prospect Engine LLC 🌐

02/2024 – Present
Dhaka, Bangladesh

CRM - Comprehensive Sales Management Platform 🌐

- Designed and implemented a comprehensive CRM solution for sales teams with multi-channel communication capabilities
- Built advanced lead management system with automated data enrichment and scoring algorithms
- Developed real-time communication hub integrating WhatsApp Business, LinkedIn, Telegram, and email platforms
- Created visual pipeline management with Kanban-style interface for intuitive deal tracking
- Redis-backed caching, queues, session management, and real-time event coordination for high-performance operations
- Implemented team collaboration features with role-based permissions and workspace management
- Built browser extension for seamless lead capture from LinkedIn and company websites

Attendly CRM - Workforce Management & Staffing Solution

- Designed and implemented a comprehensive workforce management and CRM solution for staffing agencies, staff and client assignment workflows with automated matching algorithms
- Timesheet and document management modules with PDF generation capabilities with invoicing systems with automated billing and payment tracking
- Redis-backed caching, queues, session management, and real-time event coordination for high-performance operations
- Integrated MyDigital and Xero APIs for seamless payroll and accounting automation with automated email notifications with PDF attachments for weekly summaries
- Developed client portal for real-time timesheet submission and approval workflows

Sendout.ai - AI-Powered Outreach Platform

- Built automated lead generation and qualification system using linkedin voyager api
- Created multi-channel outreach campaigns with A/B testing capabilities
- Implemented real-time analytics and performance tracking for outreach campaigns
- Developed API integrations with major CRM platforms and email providers

Software Developer

Z IT Solutions Limited 

04/2023 – 01/2024
Dhaka, Bangladesh

Chiklee - Enterprise Resource Planning (ERP) System

- Built complete ERP workflow: Indent → Product Requisition → Purchase Order → PO Receive → Production (RM) → Finished Goods Reception → Damage/Wastage Management → Stock Management
- Developed RESTful APIs for end-to-end inventory lifecycle management
- Integrated email transaction notifications and SMS gateway for real-time updates
- Implemented SurjoPay online payment system integration for financial transactions

BooksBD - E-commerce & Inventory Management Platform

- Built complete order and cart management system with real-time updates
- Handled payment and refund systems with automated processing
- Integrated SurjoPay gateway for secure online transactions
- Designed and developed admin dashboards with analytics and reporting
- Implemented inventory management with stock tracking and alerts

Khajna - NBR-Approved VAT Management Software

- Built comprehensive VAT calculation modules with automated tax computations
- Implemented Challan Entry system for tax document management
- Created VAT report generation tools with NBR-compliant formatting
- Integrated tax filing functionalities compliant with NBR standards
- Built automated tax calculation engine with error validation
- Developed pre-formatted Challan and summary reports for tax authorities

Software Developer

Kodeeo Limited 

01/2021 – 03/2023
Dhaka, Bangladesh

GroceryOrzo - E-commerce Platform with Multi-Payment Integration

- Managed complete order and cart system with real-time inventory updates
- Handled payment and refund systems with automated processing workflows
- Integrated dual payment gateways: SSLCommerz and Bkash for enhanced payment options
- Built admin dashboards with analytics, sales reports, and inventory management

EDUCATION

Bachelor of Science in Computer Science and Engineering

IUBAT – International University of Business Agriculture and Technology

01/2018 – 04/2022
Dhaka, Bangladesh

Major: Software Engineering

Thesis: Virtualization and Simulation of Cloud Computing

Higher Secondary

Khamargram Degree College

2015 – 2016
Sirajganj, Rajshahi,
Bangladesh

Major: Higher Math

Subjects: Physics, Chemistry, Biology

Secondary

Betil Multilateral High School and College

Major: Higher Math

Subjects: Physics, Chemistry, Biology

2013 – 2014

Sirajganj, Rajshahi,

Bangladesh

OPEN SOURCE CONTRIBUTION

Laravel/Livewire

1. Fix component discovery when livewire.view_path is customized

PR: <https://github.com/livewire/livewire/pull/9578>

Spatie Laravel Backup:

1. Contributed improvements and bug fixes to enhance backup reliability and platform compatibility. **Release: 9.3.5**

PR: <https://github.com/spatie/laravel-backup/pull/1921>

2. Fix: allows backups to continue when some destinations fail instead of failing completely **Release: 9.3.6**

PR: <https://github.com/spatie/laravel-backup/pull/1933>

3. Restore notification defaults for legacy single-server installs

PR: <https://github.com/spatie/laravel-backup/pull/1935>

4. Guard optional backup config keys for tenant-driven backups

PR: <https://github.com/spatie/laravel-backup/pull/1936>

Laravel Filament:

1. Enhanced internationalization support by implementing Bangla (Bengali) language localization. **Release: 4.1.10**

PR: <https://github.com/filamentphp/filament/pull/18255>

Spatie Laravel Permission:

1. Fix TOCTOU race condition in permission loading for concurrent (Octane, Swoole, RoadRunner etc) environments **Release: 6.22.0**

PR: <https://github.com/spatie/laravel-permission/pull/2883>

2. Performance enhancement: Reduce unnecessary container resolution calls **Release: 6.23.0**

Original PR: <https://github.com/spatie/laravel-permission/pull/2884>

Resolution PR Merge: <https://github.com/spatie/laravel-permission/pull/2889>

3. Add BackedEnum Support to RoleOrPermissionMiddleware

PR: <https://github.com/spatie/laravel-permission/pull/2890>

4. Add Missing roleOrPermission() route macro

PR: <https://github.com/spatie/laravel-permission/pull/2893>

Issue: <https://github.com/spatie/laravel-permission/issues/2892>

Spatie Laravel Notification Log

1. Fix notification history builder return types **Release: 1.3.3**

PR: <https://github.com/spatie/laravel-notification-log/pull/53>

Spatie Laravel Media Library

1. Improve media library with safeguards **Release: 11.17.3**

PR: <https://github.com/spatie/laravel-medialibrary/pull/3867>

2. Add m4v format clean **Release: 11.17.4**

PR: <https://github.com/spatie/laravel-medialibrary/pull/3873>

Tenancy for Laravel — stancl/tenancy

1. Fix dropRLSPolicies()

PR: <https://github.com/archtechx/tenancy/pull/1413>

Akaunting - Open Source Accounting Software

1. Fix missing non-recurring helpers in shared traits

PR: <https://github.com/akaunting/akaunting/pull/3317>

2. Recurring Invoices Break When Creating or Updating

PR: <https://github.com/akaunting/akaunting/pull/3316>

3. Fix Critical N+1 Query Performance Issues

PR: <https://github.com/akaunting/akaunting/pull/3321>

4. Mathematical Calculation Bugs

PR: <https://github.com/akaunting/akaunting/pull/3322>

Nesbot/Carbon - A simple PHP API extension for DateTime

1. Align Bangla locale files with English reference strings **Release: 3.11.0**

PR: <https://github.com/briannesbitt/Carbon/pull/3257>

SpartnerNL - Laravel-Excel

1. Fix TSV processing, queued export crashes, and interface parameter consistency

PR: <https://github.com/SpartnerNL/Laravel-Excel/pull/4330> 

SKILLS

Languages and Frameworks

PHP, JavaScript, TypeScript, Laravel, Symphony, VueJs, NestJs, ReactJs, NextJs

Databases, Caching & Search

MySQL, MariaDB, PostgreSQL, Microsoft SQL Server, Redis, Elasticsearch, AWS RDS

Tools

VS Code, PhpStorm, Git, GitHub Actions, TablePlus, Postman, Composer, NPM, Chrome DevTools

Server, Containers & Deployment

Docker, Kubernetes, Nginx, DigitalOcean Droplets, AWS EC2, Amazon S3, Cloudflare, Supervisor, SSH, FTP, CI/CD Pipelines

APIs, Messaging & Integrations

RESTful APIs, GraphQL, WebSockets (Laravel Echo, Pusher, Socket.io), Webhooks, Apache Kafka, Push Notifications, Stripe, Vimeo, Twilio

Automation & Scheduling

Cron Jobs, Task Scheduling, Background Workers

Testing & Quality Assurance

PHPUnit, Pest, Laravel Dusk