GENULA GEEMAL

SOFTWAREDEVELOPER | PROCESS ANALYST | FULL-STACK DEVELOPER

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PROFESSIONAL SUMMARY

Analytical Software Developer and Process Analyst with 2+ years of professional experience in enterprise operations and full-stack application development. Currently working at HCLTech as a Process Analyst, supporting Pearson's international examination operations, with responsibilities involving secure proctoring, regulatory compliance, operational accuracy, and process integrity across global professional certification and assessment programs.

Alongside enterprise experience, independently designs, develops, and deploys production-ready web applications using Next.js, React, TypeScript, Node.js, and PostgreSQL/Supabase. Project experience includes public utility management systems, employee onboarding SaaS platforms, and enterprise HR solutions. Combines technical development expertise with business process understanding to build secure, scalable, and practical digital solutions.

TECHNICAL & OPERATIONAL SKILLS

Programming Languages: JavaScript (ES6+), TypeScript, SQL, HTML5, CSS3

Frontend Frameworks: React, Next.js (App Router), Tailwind CSS, Framer Motion, Recharts, Responsive Design

Backend & Cloud: Node.js, RESTful APIs, Serverless Functions, Authentication & RBAC, Firebase, Vercel

Databases & ORM: PostgreSQL, Supabase (Row-Level Security), Prisma ORM, Relational Schema Architecture

Integrations & Tooling: Git, GitHub, LankaQR / PayHere Payment Gateways, Notify.lk (SMS), Resend (Email), jsPDF

Professional & Analysis: Business Process Analysis, Workflow Automation, Systems Design, Compliance Operations, Root-Cause Analysis

SELECTED TECHNICAL PROJECTS

Vikasha CBO — Water Utility Management & E-Payment Portal

Live Production

URL: https://vikashacbo.com/

• **Stack:** **Next.js, React, TypeScript, Tailwind CSS, Supabase (PostgreSQL), Recharts, Resend, Notify.lk, jsPDF**

- Architected and deployed a production-grade water utility enterprise platform for the Vikasha Community-Based Organisation (CBO), actively serving consumer households in the Magammana Water Scheme (Homagama, Sri Lanka).
- Engineered automated, progressive water tariff calculation algorithms strictly compliant with National Water Supply and Drainage Board (NWSDB) volumetric consumption tiers, ensuring accurate monthly utility invoicing.
- Implemented dedicated administrative and field meter-reader portals, enabling field optical telemetry logging, automated ledger reconciliation, and overdue account/arrears management.
- Developed tokenized digital invoice generation via jsPDF and integrated multi-channel electronic payment workflows supporting LankaQR, credit/debit cards, and bank transfers with instant SMS and email notifications.

School Ride LK — School Transportation Management Web Application

Completed (Launch Pending)

Role: Lead Full-Stack Developer • **Domain:**School Transportation Logistics, Vehicle Tracking & Passenger Roster Management

- Completed end-to-end full-stack development of a centralized transportation management application designed to streamline student transport coordination between service operators, drivers, and parents.
- Designed comprehensive backend relational database schemas to model complex school transport workflows, driver route allocations, scheduled pickup/drop-off stops, and passenger verification rosters.
- Engineered responsive administrative dashboards and operator control interfaces for tracking transportation capacity, verifying driver schedules, and managing student enrollment logistics.

OnboardFlow — Employee Onboarding & Verification SaaS **Live Production**

URL: https://www.onboardflow.site/ • Stack:Next.js,React,TypeScript, Tailwind CSS, Supabase, PostgreSQL

- Designed, developed, and deployed an independent production B2B SaaS platform enabling small and medium enterprises to automate new hire document collection and verification workflows.
- Built secure magic-link candidate portals with time-limited token expiry, eliminating unencrypted email attachments and accelerating corporate onboarding turnaround times.
- Constructed a split-screen HR document review modal with one-click approval/rejection triggers, automated follow-up reminders, and 1-click organized ZIP package exports for compliance filing.

ALFA HR Consultancy ERP — Enterprise Workflow & Candidate Portal **Live System**

URL: https://alfa-hr-erp.web.app/ • Stack:React,JavaScript,Firebase / CloudFirestore, Tailwind CSS, REST APIs

- Delivered a full-featured web-based ERP system for a Dubai-based HR consultancy firm, modernizing candidate recruitment pipelines, client engagement tracking, and internal staffing workflows.
- Architected real-time NoSQL database schemas to manage international candidate records, interview progression statuses, and consultant performance metrics with role-based access security.

Chathura & Gimasha — Bespoke Event RSVP & Guest Management Platform **Live Production**

URL: http://www.chathuragimasha.site/ •

Stack: Next.js 15, React 19, TypeScript, Supabase (PostgreSQL with RLS), Resend, Framer Motion

- Engineered an interactive guest management platform with token-authenticated RSVP links, automated WhatsApp/email distribution workflows, and private admin dashboards with dynamic seat allocation and real-time Excel export.

PROFESSIONAL EXPERIENCE

Process Analyst • **HCLTech** **March 2024 – Present**

Colombo, Sri Lanka • **Project:**Pearson International Examination & Licensure Operations

- Administer end-to-end examination administration and operational proctoring for Pearson's comprehensive global portfolio, overseeing secure testing environments across international healthcare licensure (nurses, EMTs, physicians, pharmacists), IT credentials, and professional certifications.
- Uphold rigorous compliance with international test security protocols, regulatory frameworks, and procedural standards to ensure testing validity, legal defensibility, and data integrity.
- Perform continuous business process analysis on candidate registration, credential verification, and exam scheduling pipelines to isolate operational bottlenecks and implement systemic workflow enhancements.
- Monitor operational KPIs, conduct root-cause incident analyses, and generate standardized compliance reports for cross-functional stakeholders and global testing leadership.
- Coordinate with technical operations and regional testing centers to resolve scheduling anomalies and maintain uninterrupted system uptime across secure testing environments.

Customer Relations Coordinator • **Durdans Hospital** **January 2023 – December 2023**

CorporateServices • Colombo,SriLanka

- Managed corporate client communications and healthcare service coordination, serving as the dedicated operational point-of-contact for corporate healthcare partners and executive patients.
- Optimized inquiry response times and cross-departmental scheduling workflows between clinical units, admissions, and corporate billing desks, elevating service level compliance.
- Mentored and trained junior customer service personnel on operational protocol adherence, CRM data accuracy, and corporate client relationship standards.
- Compiled weekly and monthly operational reports detailing service turnaround metrics, corporate client feedback, and dispute resolution trends for administrative leadership.

EDUCATION & ACADEMIC QUALIFICATIONS

BSc (Hons) in Software Engineering (Undergraduate) **2023 – 2027**

BCAS International (British College of Applied Studies) • Colombo, Sri Lanka

GCEAdvancedLevel—PhysicalScience Stream **2022**

St. John's College • Nugegoda, Sri Lanka

Diploma in English **2019**

IHRA University of Colombo, Sri Lanka