PASAN SASMIKA

ASSOCIATE SOFTWARE ENGINEER | FULL-STACK & MOBILE DEVELOPER

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PROFESSIONAL SUMMARY

Software Engineer with 1+ years of hands-on experience developing and maintaining web and mobile applications, designing REST APIs, working with relational and NoSQL databases, and supporting production systems. Experienced in requirements gathering, client collaboration, authentication, database migrations, workflow implementation, and user acceptance testing.

TECHNICAL SKILLS

Frontend & Mobile: React, Next.js, React Native, TypeScript, JavaScript, Tailwind CSS

Backend & APIs: Node.js, Express.js, Python, Laravel, Fast API, REST APIs

Databases & ORM: MySQL, PostgreSQL, MongoDB, Drizzle ORM, Prisma, SQLAlchemy

Security & Validation: JWT, session-based authentication, bcrypt, RBAC, Zod

Tools & Practices: Git, Docker, database migrations, API integration, debugging, UAT

PROFESSIONAL EXPERIENCE

Software Developer (Part-Time) | Zeeloop | *Sep 2026 - Present*

Car Rental Management System · *Next.js, React, TypeScript, MySQL, Drizzle ORM, Zod, Tailwind CSS*

- Primary developer of an internal rental operations platform with 12+ modules covering vehicles, customers, handovers, deposits, traffic fines, collections, renewals, sales, and reporting.
- Designed the MySQL schema and versioned migrations using Drizzle ORM, implemented layered service architecture, and applied Zod validation across API routes.
- Implemented session-based authentication with bcrypt password hashing and permission checks for page access, navigation, and post-login redirects.
- Built vehicle handover and return workflows with automatic invoice numbering, vehicle-change history, damage deductions, deposit holds, and traffic-fine recovery with partial payments and outstanding-balance tracking.
- Developed renewal restrictions for vehicles with unpaid fines, expiry alerts, global search, notifications, activity logs, document uploads, dark mode, and a browser extension to extract MOI fine data and export CSV files.

HR & Payroll Management System (SM-HRPAY) *Next.js, React, TypeScript, PostgreSQL, Prisma, Tailwind CSS*

- Developed a multi-step payroll processing workflow with department selection, review and validation, on-hold employees, sales commissions, salary advances, and configurable payroll rules.
- Implemented EPF/ETF contribution calculations, editable salary sheets, and PDF exports using jsPDF
- Built QR-code and selfie-based attendance, leave management with balances and half-day sessions, holiday calendars, and employee lifecycle modules covering profiles, increments, transfers, disciplinary records, career history, and uniform issuance.

- Implemented JWT authentication using bcrypt, role-based access for HR and employees, notifications, global search, dashboards, and exportable reports; migrated the database from MySQL to PostgreSQL using Prisma migrations and seed scripts.

Associate Software Engineer | Vogue Software Solutions (Pvt) Ltd. | *Jan 2026 - Present*

- Participate in client meetings and requirements-gathering sessions to understand business needs.
- Build and maintain web applications, implementing features from design through deployment.
- Debug and resolve production issues to support application stability and client satisfaction.
- Conduct site visits and user acceptance testing (UAT), working with clients to validate requirements and resolve functional issues.

Software Engineering Intern | Vogue Software Solutions (Pvt) Ltd. | *Jul 2025 - Jan 2026*

- Contributed to the development and testing of web applications across the software development lifecycle.
- Gained practical experience with professional engineering practices, collaboration, and team workflows.

SELECTED PROJECTS

Seahorse Diving Unawatuna - Freelance Website Development *Next.js, Tailwind CSS, PostgreSQL*

- Collaborated directly with the client to understand business requirements and translate them into website features and user-friendly page layouts.
- Designed and developed an attractive, responsive website tailored to the diving business, focusing on visual presentation and user experience.
- Managed domain registration, website deployment, and hosting configuration on a Hostinger VPS (KVM 1) to establish the client's online presence.

Hay-Link Mobile Application - Distribution Management System · *React Native, Tailwind CSS*

- Developed mobile workflows for sales requests, product orders, returns, and field operations.
- Integrated frontend components with backend APIs to support business operations.

Learning Management System · *React, FastAPI, PostgreSQL, SQLAlchemy, Tailwind CSS*

- Developed course management, enrolment, assessments, progress tracking, and certification workflows.
- Built REST APIs and implemented JWT authentication and role-based access for Admin, Programme Manager, Designer, and Learner roles.

Mattress Fit · *React Native, Python Flask, MySQL, MediaPipe, OpenCV*

- Built a mobile app that analyses T-pose images to estimate body measurements and recommend mattress sizes.
- Implemented camera capture, pose visualization, scan results, measurement history, and PDF report sharing.

Skincares LK – E-commerce Platform · *Next.js, Tailwind CSS, Node.js, Express.js, MongoDB*

- Built a full-stack e-commerce platform with JWT authentication, role-based access, product CRUD, and order tracking.
- Developed a responsive interface designed to support a smooth repeat-customer experience.

EDUCATION

BSc (Hons) in Software Engineering | ICBT Campus - Cardiff Metropolitan University | 2024-2025

Higher Diploma in Computing & Software Engineering | ICBT Campus - Cardiff Metropolitan University | 2023-2024