

SHALAKA DESHAN SILVA

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PROFESSIONAL SUMMARY

Senior Backend Software Engineer with 7+ years of experience designing and developing scalable backend systems using PHP (Laravel), Python, and PostgreSQL.

Strong expertise in REST API development, database design, query optimization, and performance tuning in high-load environments.

Hands-on experience with Docker, Linux environments, CI/CD pipelines, and debugging complex production issues.

CORE SKILLS

- PHP, Python, JavaScript/TypeScript, SQL
- Laravel, AngularJS, Vue.js, React, OpenLayers, GeoServer
- PostgreSQL/PostGIS, MySQL/MariaDB (performance tuning)
- Docker, Ansible, GitLab CI/CD, Linux (Debian/CentOS)
- REST API design, authentication systems, Microservices, OOP, SOLID, distributed systems
- Jira, Git workflows, Agile delivery practices, code reviews, debugging & profiling tools

PROFESSIONAL EXPERIENCE

Senior Software Engineer – Skyplan Services Ltd. | Dubai (2022–Present)

- Designed and developed **scalable backend systems** for flight planning and operational platforms
- Built and maintained **RESTful APIs** for internal and customer-facing applications
- Optimized database queries and backend performance, improving system efficiency by **~20%**
- Reduced production defects by **~25%** through improved validation and structured error handling
- Developed backend services handling large-scale data processing and real-time integrations
- Worked extensively with **PostgreSQL/PostGIS and MySQL**, focusing on performance tuning
- Implemented Docker-based microservices architecture for backend services
- Debugged and resolved complex production issues in high-availability systems
- Collaborated with frontend teams to deliver efficient API-driven solutions

Senior Software Engineer – DH3 Solutions | Sri Lanka (2021–2022)

- Migrated monolithic ERP system to **modular backend architecture**, reducing maintenance costs by **~30%**
- Designed reusable backend components and improved code maintainability
- Standardized CI/CD workflows and containerized backend services
- Mentored developers on backend design, debugging, and clean coding practices

Software Engineer – Elegant Media | Sri Lanka (2020–2021)

- Developed scalable backend systems using **Laravel and REST APIs**
- Improved application performance and reduced regression issues
- Contributed to code quality through reviews and best practices

Software Engineer - Sen Solutions Pvt Ltd | Sri Lanka (2019 -2020)

- Built secure payroll system with strong validation and data integrity controls
- Developed real-time APIs for enterprise integrations
- Improved deployment reliability using container-based workflows

Software Engineer - Elogic Lanka Pvt Ltd| Sri Lanka (2018 -2019)

- Developed backend administrative systems and reporting tools
- Contributed to deployment automation and system stabilization

SELECTED TECHNICAL EXPERIENCE

- Designed backend services for **data processing, reporting, and system integrations**
- Built and maintained **high-performance APIs** with strong focus on scalability and maintainability
- Worked with **complex data models and relational databases**
- Experience with **debugging, profiling, and optimizing web applications**
- Developed **microservices using Docker** in Linux environments

EDUCATION

- BCS Professional Graduate Diploma in IT (UK Equivalent Bachelor)
- BSc in Computing (Ongoing, Remote, UK)

CERTIFICATIONS

- Python Programming – Upskillist
- Neural Networks – DeepLearning.AI

KEY STRENGTHS

- Strong backend engineering and **system design mindset**
- Excellent **debugging and problem-solving ability**
- Experience working in **high-performance, production environments**
- Focus on **clean code, maintainability, and continuous improvement**