

PATHMANATHAN NIROSHAN

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PROFESSIONAL SUMMARY

BICT Software Technologies undergraduate with hands-on experience developing full-stack web applications using Next.js, React.js, TypeScript, NestJS, Laravel, PHP, REST APIs, and MySQL. Experienced in frontend and backend development, API integration, authentication, database-driven applications, testing, debugging, and Git/GitHub. Practical experience with PostgreSQL, MongoDB, Prisma, Supabase, Docker, Microsoft Azure, and AWS, along with foundational knowledge of AI/ML and recommendation systems. Strong problem-solving, programming, teamwork, and communication skills with a strong eagerness to learn and contribute to real-world software engineering projects.

TECHNICAL SKILLS

Programming: JavaScript (ES6+), TypeScript, PHP, Python, C#, SQL, Dart

Frontend: React.js, Next.js, HTML5, CSS3, Tailwind CSS, Bootstrap, Responsive Design

Backend: Node.js, NestJS, Laravel, REST APIs, JSON, Authentication, API Integration

Databases & ORM: MySQL, PostgreSQL, MongoDB, SQLite, Prisma, Eloquent ORM

Software Engineering: OOP, MVC, SDLC, Data Structures & Algorithms, CRUD Operations, Debugging

Testing & Tooling: Postman, PHPUnit, Manual Testing, Debugging, Bug Fixing, Git, GitHub, Figma, VS Code

Cloud & DevOps: Microsoft Azure (App Service), AWS, Docker, Linux

Mobile & Desktop: Flutter, Firebase, C#/.NET Windows Forms

AI & Machine Learning: AI/ML Fundamentals, Generative AI, Recommendation Systems

PROJECTS

Software Engineering Portfolio – Full-Stack 3D/Holographic

[GitHub](#) | [Live Demo](#)

Next.js, React.js, TypeScript, NestJS, Prisma, MySQL, REST APIs

- Developed a full-stack personal portfolio application using Next.js/React.js frontend and NestJS backend with REST API architecture.
- Built a responsive 3D/holographic developer interface with interactive animations and modern UI components.
- Implemented contact form functionality, database storage, and email notifications using NestJS, Prisma, and MySQL.
- Integrated frontend and backend components through REST APIs and managed application data using Prisma ORM.
- Applied performance optimization, SEO, Git/GitHub version control, and cloud deployment for a production-ready portfolio.

Final-Year Project - AI-Driven Knowledge-Based Cloud Web Application

Next.js, React.js, Laravel, PHP, MySQL, REST APIs

- Developing a cloud-based full-stack web application using Next.js, React.js, Laravel, and MySQL.
- Developing frontend and backend components with RESTful APIs, authentication, role-based functionality, and database integration.
- Implementing application features including search, booking workflows, user dashboards, and data management.
- Designed and managed relational database operations using MySQL and Laravel Eloquent ORM.

StyleCart – Full Stack Fashion E-Commerce Platform

[GitHub](#) | [Project Demo](#)

Software Engineering Project | Laravel, React.js, REST APIs, MySQL

- Developed a full-stack e-commerce application using React.js, Laravel REST API, and MySQL
- Implemented authentication, product management, shopping cart, checkout, and order processing functionality.
- Integrated frontend and backend components through RESTful APIs and structured application workflows.
- Designed relational database models using Laravel MVC and Eloquent ORM.
- Performed unit testing with PHPUnit, API testing with Postman, debugging, and bug fixing to improve application reliability.

Cloud-Based Vehicle Rental Management System

[GitHub](#) | [Project Demo](#)

Cloud Software Application | Laravel, PHP, Microsoft Azure, MySQL

- Built a Laravel-based vehicle rental system with authentication, CRUD, and bookings.
- Designed and implemented MySQL database models using MVC architecture and Eloquent ORM.
- Deployed on Microsoft Azure App Service with email notifications.

Mobile & Desktop Applications

[GitHub](#) | [Project Demo](#)

C#, .NET Framework, Flutter, Dart, Firebase, SQLite

- Developed C# Windows Forms applications using OOP, input validation, exception handling, and SQLite.
- Collaborated with team members to develop Flutter mobile applications using Dart, Firebase, and SQLite.

EDUCATION

South Eastern University of Sri Lanka

2022 – 2027

Bachelor of Information and Communication Technology (BICT)

Specialization: Software Technologies

CERTIFICATIONS

- AWS Academy Graduate – Cloud Web Application Builder (2026)
- Cisco Networking Academy – Python Essentials 1 (2026)
- AWS Academy Graduate – Cloud Foundations (2025)
- AWS Academy Graduate – Generative AI Foundations (2025)

REFERENCES

Dr. I.M. Kalith

Senior Lecturer Gr. II in ICT

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