

# Nipun Bhatiya

Portfolio | [LinkedIn](#) | [GitHub](#)

Address: 161/K, Walawwaththa, Ihalagama, Gampaha

Email: [nipunbathiya1256@outlook.com](mailto:nipunbathiya1256@outlook.com) | Mobile: +94 712719315

## PROFESSIONAL SUMMARY

**Undergraduate** Student with hands-on enterprise experience in **Spring Boot, Angular, React, and .NET**, specializing in building scalable, secure backend services and modern frontend applications. Proven ability to take ownership of end-to-end features, collaborate with cross-functional teams, and rapidly learn new technologies in agile, production environments. Strong foundation in clean architecture, API design, and SQL, with a growth mindset aligned to large-scale enterprise systems.

## EDUCATION

### University of Colombo School of Computing

B.Sc. (Hons) in Computer Science

Current GPA : 3.63

Relevant Coursework: Software Engineering, Database Systems, Software Architecture, Data Structures & Algorithms

Colombo, Sri Lanka

Jun 2022 – Present

### IMBS Green Campus

Diploma in Psychology and Counseling

Gampaha, Sri Lanka

Nov 2025 – Present

### Bandaranayake College, Gampaha

Advanced Level Examination (Physical Science Stream)

Gampaha, Sri Lanka

Mar 2018 – Oct 2021

## WORK EXPERIENCE

### Software Engineer - Intern

Scienter Technologies (Pte) Ltd

6 months | Nov 2024 – May 2025

Full-time | On-site : Colombo, Sri Lanka

- Collaborated with senior engineers and consultants to translate complex **Fintech** requirements into production-ready design decisions.
- Developed enterprise-grade frontends using **Angular 19 + PrimeNG**, implementing dynamic **Micro-Frontends (Native Federation)** to improve system modularity and maintainability.
- Owned backend–frontend integration with **.NET 8 APIs and SQL Server** stored procedures, improving data reliability and performance through profiling and query optimization.
- Took ownership of implementing enterprise-grade frontend modules using **Angular 19 + PrimeNG**, adhering to **clean architecture** and internal coding standards.

## PROJECTS

### AETHA (Team Lead)

Spring Boot, React.js, MongoDB, JWT

[Frontend Code](#) | [Backend Code](#)

A content platform connecting Sri Lankan writers and readers, featuring monetization for creators and a seamless reading experience.

Took full responsibility for backend architecture, security, and deployment readiness under tight academic and time constraints.

- Led the end-to-end development of a project with a 4-member team, quickly mastering **Spring Boot** to design the system architecture, coordinate agile sprints, and deliver a fully functional MVP within tight deadlines.
- Designed and implemented a secure, production-ready **RESTful API**, integrating **JWT-based authentication** and custom security filters to ensure a robust, stateless backend architecture.
- Developed a scalable **layered architecture** (Controller, Service, Repository) to enforce separation of concerns, improving code maintainability, testability, and overall team productivity.
- Enhanced frontend performance and user experience by leveraging **React Query** for efficient server-state management and **NextUI** to build a responsive, accessible interface.

### Hotel Booking System

React.js, Node.js, Redux, MongoDB

[Web Link](#) | [Source Code](#)

A web-based booking application featuring AI-powered search and prompt-based filtering for hotel discovery.

- Designed and built a full-stack application using the **MERN stack** (MongoDB, Express, React, Node.js), gaining hands-on experience in applying **Clean Architecture** principles to structure scalable and maintainable systems.

- Developed and integrated **vector-based semantic search** for natural language hotel discovery, strengthening understanding of vector embeddings, relevance scoring, and modern search paradigms beyond keyword matching.
- Strengthened frontend engineering skills by implementing **Redux** for centralized global state management, ensuring predictable data flow and improved maintainability across complex React component hierarchies.
- Enhanced application security by integrating **Clerk authentication** and configuring secure **CORS** policies, reinforcing best practices for user authentication, authorization, and API protection.

## ENTO

PHP, MySQL, HTML, CSS, JS

[Source Code](#)

A centralized platform for music event planning, streamlining coordination between organizers, venues, and artists.

- Developed a complete **MVC-based web application** using raw **PHP** and **MySQL**, strengthening core backend fundamentals and deepening understanding of server-side rendering and request lifecycles.
- Designed and normalized relational database schemas, gaining hands-on experience in efficient data modeling, query optimization, and maintaining data integrity.
- Implemented role-based dashboards for **Artists** and **Organizers**, translating business requirements into intuitive interfaces that streamlined event scheduling workflows.

## TECHNICAL SKILLS

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**Languages** : Java, JavaScript (ES6+), TypeScript, SQL, C#, PHP, HTML/CSS  
**Frameworks** : Spring Boot, Angular 19, React.js, Node.js, .NET 8, Express.js  
**Databases** : MySQL, MongoDB, SQL Server, PostgreSQL  
**Tools & Security** : JWT, Git, Docker, Postman, Maven, Azure, AWS, VS Code

## OTHER EXPERIENCE

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### Undergraduate Teaching Assistant

University of Colombo School of Computing

6 months | Jun 2025 – Nov 2025

Full-time | On-site : Colombo, Sri Lanka

- Mentored undergraduate students in **Full-Stack Web Development**, breaking down complex concepts in React.js and API integration.
- Conducted code reviews and practical sessions, guiding students through debugging and implementing best practices in component architecture.
- Developed strong technical communication skills by translating theoretical CS concepts into practical, hands-on coding demonstrations.

### Researcher

University of Colombo School of Computing

Final Year Research

Colombo, Sri Lanka

Topic: Factors Influencing Developer Trust in AI-Assisted Software Development (Focus on GitHub Copilot).

- Designed and conducted controlled experiments to analyze developer cognitive load (NASA-TLX) and trust dynamics when using AI coding assistants.
- Analyzed interaction data to evaluate human-AI collaboration patterns, providing insights into the usability of AI tools in software engineering.

## CERTIFICATIONS

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- [Global Learning Lab Leadership Academy](#) | Sysco LABS Sri Lanka
- [React: State Management](#) | LinkedIn Learning
- [Full Stack Engineer - AI](#) | STEM Link

## REFERENCES

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### Dr. Dilrukshi Gamage

Senior Lecturer, UCSC  
dgs@ucsc.cmb.ac.lk  
+94 718 365653

### Ms. M.A.I. Perera

Lecturer, UCSC  
mai@ucsc.cmb.ac.lk  
+94 713 646879