NIPUN SATHSARA BASNAYAKA

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LinkedIn | GitHub | Portfolio

Professional Summary

Full-stack Software Engineer with 8+ months of professional experience in building scalable, secure, and performant web applications using Spring Boot, Angular, React.js, NestJS, and Next.js. Proven ability to deliver end-to-end solutions with microservices architecture, OAuth2/JWT authentication, and cloud-ready deployments. Strong collaborator with agile teams to improve system efficiency by up to 40% and enhance UI responsiveness by 35%.

Technical Skills

- Programming Languages: Java, JavaScript, TypeScript, Python, PHP, HTML5, CSS3
- Backend Technologies: Spring Boot, Spring Security, Spring Data JPA, NestJS, TypeORM, RESTful APIs
- Frontend Frameworks: Angular, React.js, Next.js, Angular Material, Bootstrap, Tailwind
- Databases: MySQL, PostgreSQL, MongoDB, Firebase Firestore
- Cloud Services & Tools: AWS (EC2, S3), Docker, Git, IntelliJ IDEA, VS Code, Postman
- Development Practices & Architecture: Microservices Architecture, Event-Driven Architecture, Agile/Scrum, CI/CD pipelines
- Security: OAuth2, JWT, Spring Security, Bcrypt Encryption

Professional Experience

Software Engineering Intern
Residue Solutions Pvt Ltd | May 2025 – Present | LinkedIn

- Developed backend microservices using Spring Boot, Express.js, and NestJS with secure JWT and OAuth2 authentication.
- Built frontend features integrating React.js (Vite), Next.js, and Angular for responsive, real-time applications using Firebase Firestore.
- Collaborated within a cross-functional Agile team of 7+ members, participating in sprint planning, code reviews, and CI/CD processes.

- Improved system scalability by 40% and UI responsiveness by 35% through performance optimization and teamwork.

Trainee Developer

iCET | Aug 2024 – May 2025 | [LinkedIn](#)

- Received comprehensive training on Java, HTML, CSS, JavaScript, JavaFX, Spring Boot, Angular, React.js, AWS, Python, design patterns, and data structures.
- Collaborated with a team of 45+ developers on full-stack projects using Angular, React.js, and Spring Boot within microservices architectures.
- Developed server-side rendered components with Next.js, enhancing page load performance and SEO.
- Practiced secure coding techniques, implementing role-based access control with JWT authentication.

Education

Bachelors of Information Technology
University of Colombo School of Computing | 2026 | Reading

Higher Diploma in Information Technology
University of Colombo School of Computing | 2025

Diploma in Software Engineering
Institute of Computer Engineering Technology | 2025

Diploma in Information Technology
University of Colombo School of Computing | 2023

Diploma in Cyber Security
SITC Campus | 2022

Certifications

- Java Foundations Professional Certificate | JetBrains | 2025
- Docker Foundations Professional Certificate | Docker, Inc | 2025
- Blockchain Basics & Beyond | LinkedIn Learning | 2025
- Machine Learning with Python: Foundations | LinkedIn Learning | 2025
- Postman API Fundamentals Student Expert | 2025

Key Projects

RSK Fitness Gym System ([GitHub Repository](#))
Technologies: NestJS, React.js (Vite), MongoDB, Access Controller (IoT)
- Developed a full-stack gym management app integrating IoT for real-time access control. Implemented member and equipment management with scalable MongoDB storage.

Website Scraper with Python ([GitHub Repository](#))
Technologies: Python (Flask, threading, uuid), BeautifulSoup, Pandas, Requests, Webview
- Built a multithreaded web scraper with Flask API, error handling, scheduling, and data export to CSV, JSON, and Excel.

EvoPlan Enterprise Web Application ([GitHub Repository](#))
Technologies: Angular, Spring Boot, OAuth2, TypeScript, Supabase
- Led full-stack development integrating Google OAuth2 and real-time data management. Collaborated with 45+ developers managing backend pull requests.

HR Management System ([GitHub Repository](#))
Technologies: Angular, Spring Boot, MySQL, JWT, Angular Material
- Implemented secure REST APIs for employee, leave, and payroll management. Built a modular microservices architecture with 99.8% uptime.

Microservices Architecture & Event-Driven System ([GitHub Repository](#))
Technologies: Spring Boot, Apache Kafka, MySQL, Docker
- Developed scalable microservices integrated with Kafka, improving event processing by 25%. Dockerized services for efficient deployment.

References

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