

Nipun Sathsara

SOFTWARE ENGINEERING INTERN

Gampaha, Sri Lanka

+94 77 880 6029

nipunsathsara1999@gmail.com

LinkedIn: <https://www.linkedin.com/in/nipunbasnayake/>

GitHub : <https://github.com/NipunBasnayake>

Portfolio: <https://nipunbasnayake.github.io/Portfolio-2025/>

Objective

Motivated undergraduate at the University of Colombo School of Computing (UCSC) with hands-on experience in full-stack development. Seeking a Software Engineering Internship to apply problem-solving skills, programming fundamentals, and modern development practices. Passionate about building high-quality, scalable solutions through collaborative teamwork and innovative problem-solving.

Education

Diploma in Information Technology

2023

University of Colombo School of Computing

- Learned Java programming and core programming fundamentals
- Developed strong theoretical and practical knowledge of software development principles
- Gained hands-on experience with modern programming methodologies and practices

Diploma in Cyber Security

2022

SITC Campus

- Studied cybersecurity fundamentals and ethical hacking techniques
- Gained practical knowledge in identifying and mitigating security vulnerabilities
- Developed understanding of secure coding practices and threat assessment

Certifications

Postman API Fundamentals Student Expert certification

2025

Issued by Postman

- Learned API fundamentals, including requests, responses, authentication, and automation
- Gained hands-on experience with Postman for testing and managing APIs
- Developed skills in API documentation, collections, and workflow automation

Technical Skills

- **Programming Languages:** Java, JavaScript, HTML, CSS, Python (basic)
- **Frameworks & Libraries:** Angular, Spring Boot, React.js, Node.js, jQuery, Bootstrap, Tailwind
- **Databases:** MySQL, MongoDB (basic), PostgreSQL (basic)
- **Tools & Technologies:** Git, GitHub, IntelliJ IDEA, VS Code, AWS, Postman
- **Development Methodologies:** Agile, Scrum, REST API development
- **Additional Skills:** Responsive Web Design, Application Security, Version Control

Projects

EvoPlan | Full-Stack (In Progress)

- Developed Angular frontend for login and signup functionality, ensuring a smooth and secure user experience.
- Reviewed and optimized backend code, contributing to improved API performance and security.
- Implemented Spring Security and OAuth2 for robust user authentication and authorization.
- Collaborated with a team of developers using Agile methodology, delivering the project ahead of schedule.
- Tech stack: Angular, Spring Security, OAuth2, TypeScript, HTML, CSS, JavaScript.

Eventicks | Full-Stack (In Progress)

- Developing an Angular frontend for event management and ticket booking functionality.
- Implementing Spring Boot backend services for event creation, management, and ticket purchasing.
- Integrating Spring Security with OAuth2 and JWT for secure user authentication and authorization.
- Leveraging WebSockets for real-time updates on event status and ticket availability.
- Collaborating with a team using Agile methodology to ensure efficient progress and timely delivery.
- Tech stack: Angular, Spring Boot, Spring Security, OAuth2, JWT, WebSockets, TypeScript.

Employee Management System | Full-Stack

- Developed a web-based employee management system using React and Spring Boot, enabling seamless CRUD operations for employee records
- Implemented secure authentication and role-based access control to ensure data privacy and security
- Designed a responsive UI using React and Bootstrap, improving user experience across devices
- Integrated MySQL with Hibernate (JPA) for efficient and scalable database management
- Utilized Spring Boot REST APIs to handle employee data, improving system performance and maintainability
- Tech stack: React, Spring Boot, MySQL, Hibernate, Bootstrap

MOS Burgers Web Application | Full-Stack

- Engineered a scalable Spring Boot application with JPA, reducing database query time by 40% while handling 500+ concurrent users
- Integrated Jasypt encryption for customer data security, ensuring 100% compliance with data protection regulations
- Designed responsive UI with modern principles, decreasing page load time by 30% and improving user engagement
- Collaborated with a team of 3 developers using Agile methodology, completing the project 2 weeks ahead of deadline
- Tech stack: Spring Boot, JPA, Jasypt, HTML, CSS, JavaScript

Checkmate 3D | Frontend

- Built an immersive 3D chess game using Three.js, featuring interactive gameplay with smooth animations
- Developed a custom chess logic system in JavaScript, supporting all standard rules, including castling, en passant, and pawn promotion
- Designed an intuitive user interface with turn indicators, move history, and valid move highlighting for enhanced gameplay
- Implemented interactive camera controls using OrbitControls, allowing smooth navigation and board flipping
- Optimized rendering with realistic textures, lighting, and animations, improving performance and visual appeal
- Tech stack: Three.js, JavaScript, OrbitControls, GLTFLoader, AudioListener, Raycaster

ChatterAI | Frontend

- Constructed a real-time chat interface using Gemini AI to provide personalized responses, increasing user engagement by 35%
- Established comprehensive error handling with fallback mechanisms, reducing system downtime by 60%
- Crafted an intuitive UI with modern front-end technologies, resulting in a 45% improvement in user retention
- Incorporated user feedback through multiple iteration cycles, implementing 15+ feature improvements
- Built with: HTML, CSS, JavaScript, Gemini AI API

LangEase Translator | Frontend

- Developed a responsive multi-language translation application supporting 30+ languages with 98% translation accuracy
- Optimized API calls to translation services, reducing latency by 50% and improving overall user experience

- Formulated an accessibility-focused interface that increased mobile user adoption by 40% across diverse devices
- Implemented browser-based caching system that reduced API usage costs by 35% while maintaining performance
- Powered by: JavaScript, HTML, CSS, Translation APIs

Clothify Store POS System | JavaFx

- Architected a comprehensive JavaFX POS system that streamlined checkout process, reducing transaction time by 35%
- Deployed role-based access control with 99.9% security effectiveness, protecting sensitive customer and inventory data
- Generated an automated inventory management system that reduced stock discrepancies by 75% while producing detailed reports
- Utilized MVC architecture and dependency injection to create maintainable, testable code with 80% test coverage
- Core technologies: Java, JavaFX, MySQL, Google Guice, Hibernate