



Shamini Nirodya

Software Engineer Intern

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PROFILE

Enthusiastic IT and Management undergraduate with one year of internship experience at ExcelllyGen LLC, specializing in designing and developing scalable web applications. Hands-on experience with React, Next.js, ASP.NET Core, and Spring Boot, including building RESTful APIs, implementing CRUD operations, and working with SQL-based databases. Familiar with object-oriented programming, clean architecture principles, and Agile development practices. A fast learner with strong problem-solving skills and a passion for real-world software engineering. Founded and led Team Bug-Busters, a competitive programming and development team with successful participation in inter-university competitions.

PROFESSIONAL EXPERIENCE

Trainee Software Engineer (Internship) | 11/2024 - 11/2025

ExcelllyGen LLC

- Contributed as a full-stack engineer and built high-quality frontend features and other interactive UI components using React + Vite and developed and maintained backend API endpoints in .NET with general CRUD operations.
- Collaborated with senior developers, participated in code reviews, and resolved 20+ bugs across sprint cycles, improving platform stability by reducing reported issues to improve stability and performance of the platform and gained hands-on experience working in an Agile environment using Jira, Git, and industry-standard development practices

PROJECTS

BlipSkills - Enterprise Learning & Management System (ExcelllyGen LMS) | 2nd year Software Project

Full Stack Developer | July/2024 - July/2025 | React, ASP.NET Core, SQL Server, Firebase

- Designed reusable components and implemented CRUD operations across key LMS modules to improve scalability and maintainability and integrated Firebase services for file storage and user authentication and Worked with AWS cloud services for application deployment and cloud infrastructure management
- Designed and developed scalable full-stack web application modules including Learner Dashboard, CV Generation system, Discussion Forum, and Rewards & Badges using React.js and ASP.NET and implemented CRUD operations, following to ensure maintainability and extensibility.
- Developed reusable React components and integrated backend API endpoints using .NET with SQL Server for structured data storage and optimized queries and integrated Firebase File Storage to handle document management features.
- Collaborated in an Agile/Scrum environment, actively participating in sprint planning, bug fixing, and code reviews using Git and Jira.

TravelMate - AI Powered Travel Planner | 2nd Runner-Up - HackElite 2.0

Team Leader & UI/UX Developer | Aug/2025 - Sep/2025 | Figma, Next.js

- Led a cross-functional team of 4, handling task allocation, sprint coordination, and final project delivery within tight hackathon deadlines.
- Designed user-centered UI/UX workflows, wireframes, and interactive prototypes using Figma, focusing on accessibility and responsive design principles.

DockTrack - Digital Daily Work Report & Progress Documentation System (for Colombo Dockyard PLC)

Front-end Developer | Sep/2025 - Oct/2025 | Next.js, TypeScript, Tailwind CSS, DockerNext.js, Docker

- Developed a real-time camera capture and annotation system with live preview, text, shapes, and arrow tools using React, TypeScript, and browser native APIs.
- Built feature-rich modules including photo gallery management, advanced search & filtering, metadata handling, drafts, and report submission workflows, significantly improving supervisor productivity.
- Applied Agile development practices and collaborated with backend teams to ensure accurate API integration and data consistency.
- Containerized application components using Docker and supported Kubernetes-based deployment workflows for scalable and efficient build, test, and deployment pipelines.

Anime Streaming Platform

Full-Stack Developer | Nov/2024 - Dec/2024 | Laravel, PHP, Blade, MySQL

- Developed a complete full-stack web application using Laravel MVC architecture, focusing on clean code and modular design.
- Implemented user authentication, authorization, search functionality, anime listings, and content filtering using Laravel middleware and Eloquent ORM.
- Designed and optimized relational database schema with indexing, joins, and query optimization for high-performance content retrieval.
- Built responsive UI components using Blade templates, ensuring cross-device compatibility and improved user experience.


ParkSnap – Smart Parking Slots Management System (for LSEG)

Back-end Developer | June/2024 – Sep/2024 | Spring Boot, MySQL

- Developed RESTful APIs using Spring Boot to handle parking slot booking, and availability management.
- Built backend services for admin dashboard functionalities, including user management and parking allocation logic and optimized database performance using MySQL joins, indexing, and normalized schema design, ensuring data integrity and scalability.

GearUp - Automobile Service Time Logging & Appointment System

Full Stack Developer | Oct/2025 – Nov/2025 | Next.js, Spring Boot, Microservices

- Developed employee time logging and service progress tracking modules with real-time updates using Next.js frontend and microservices architecture using Spring Boot for scalable service management (<https://github.com/niro886/GearUp-backend> ) , enabling accurate work hour recording and live service status monitoring.
- Built parts and material request functionality with approval workflows, implementing RESTful APIs and responsive UI components to streamline inventory requests between employees and administrators.

Campus Navigator – AI-Powered Pathfinding System (Using Search Algorithms)

Python Developer | Nov/2025 | Python, Pygame, NetworkX

- Developed an interactive campus navigation application using Python and Pygame, implementing mainly BFS and DFS search algorithms to compute shortest and alternative routes across a 16-node graph representation of the university of Moratuwa.
- Designed a graph-based map structure with multi-attribute edges (stairs, weather exposure, congestion) and created an intuitive UI enabling users to compare BFS vs DFS pathfinding performance for real-world navigation scenarios.

Smart Neck Pillow | First Year Hardware Project

Hardware | Aug/2023 – Dec/2023

- Developed a smart neck pillow prototype, integrating hardware components with a basic web interface for control and monitoring.

EDUCATION

- Bachelor of Science (Hons.) in Information Technology and Management | 05/2023 - Present
(3rd Year) University of Moratuwa , Sri Lanka
- Diploma in Human Resource Management (Merit Award) - LPEC Campus, Kiribathgoda | 2023 - 2024
- Diploma in English - Sabaragamuwa University of Sri Lanka | March 2022 - March 2023

CERTIFICATIONS

- Master Next.js 15 from Basics to Advanced, ReactJS, and Tailwind CSS - Udemy | August 2025
- Web Design for Beginners - Open Learning Platform(UOM) | March 2023

TECHNICAL SKILLS

- **Programming Languages** – TypeScript | JavaScript | Java | C | C# | Python | PHP
- **Frontend** – React.js | Next.js | TailWind CSS | Bootstrap | HTML/CSS
- **Backend** – ASP.NET Core | Spring Boot | Laravel | Express.js | Node.js
- **Databases** – MySQL | PostgreSQL | SQL Server | MongoDB
- **Cloud & DevOps** – Docker | Git/GitHub
- **Architectures** – Microservices | Clean Architecture | RESTful APIs
- **Tools** – Jira | Trello | Postman | Swagger

COMPETITIONS & HACKATHONS

- HACKELITE 2.0 | IEEE WIE at University Of Moratuwa | Leader of the Team Bug Busters | 2nd Runner-up
- Code Rush - 2024 | University Of Moratuwa
- AlgoXplore 1.0 | NSBM Green University
- MoraXtreme 10.0 | IEEE Student Branch of the University of Moratuwa
- Code With WIE'25 | IEEE WIE University Of Moratuwa

VOLUNTEER

- Monitoring and Evaluation Executive | G17 University Ambassadors Consortium, Sri Lanka
- IM Member & Web Developer | AIESEC at University of Moratuwa | 2024 - 2025
- Leo Club of University of Moratuwa | Co-Chairperson - Project Senehase Sendewa | 2024
- IEEE Student Branch of University of Moratuwa | IEEE PES Member | 2023 - 2024

SOFT SKILLS

Critical Thinking | Agile Adaptability | Version Control Proficiency | Data-Driven Decision Making

REFERENCES

Ms. Nipuni Chandimali, Lecturer (Probationary), University Of Moratuwa
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Mr. Nilantha Ekanayaka, Senior Tech Lead, Excellly
nilantha@excellgen.io, 077 824 0337