

Nirusan Hariharan

Software Engineer

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Computer Science student with industrial experience in software development, spanning frontend, backend, full-stack, and machine learning projects. Skilled in building scalable applications and solving real world problems through clean and efficient algorithms. Eager to contribute to impactful projects while continuously expanding technical and collaborative skills.

Experience

● Associate Software Engineer - Altrium 2025 May - 2025 Aug

Spring Boot | React JS | Fast API | Spring AI | MongoDB | Rabbitmq | AWS | Jenkins | Docker | Gradle |

- Contributed to the PlanYear project lifecycle. A SaaS platform enabling secure data exchange between brokers, carriers, and buyers with multi-level user access.
- Played a key role in insurance proposal exports involving Spring and Excel integration. Built critical features including DB migrations and Spring AI integration with email generation.
- Handled overall project workflow and independently fixed support bugs causing inconsistency.

● Software Engineer Intern - Vestoria 2023 - 2024

Spring Boot | MySQL | API Testing | React.js | Vue.js | Docker | MVC |

- Contributed to the Reporting API Project, which provides session and partner data for external organisations via secure API access.
- Played a key role in Autonoe, a middleware solution facilitating asynchronous message-based integration between PIMS vendors and Vetstoria.
- Developed features and enhancements in an internal UI/UX component framework to ensure design consistency across products.

● Full Stack Developer - Izatic 2023 - 2024

WordPress | MySQL | HTML | CSS |

- Developed dynamic e-commerce and portfolio websites using WordPress, HTML, CSS, and MySQL, implementing responsive design principles to ensure optimal user experiences across devices and improve engagement and conversion rates.

● Founder - Immserive Smile Plus 2022- 2025

Unity | Unreal Engine | Virtual Reality | React.js | Firebase |

- Founded and led development of a VR-based mental wellness platform using immersive therapy to reduce psychological pain.
- Built real-time apps integrating IoT devices to detect user states and trigger tailored VR scenarios.

Education

● BSc (Hons) Computer Science 2021 - 2025

- Informatics Institute of Technology affiliated with University of Westminster

● Foundation in Higher Education 2020 - 2021

- Distinction Pass
- Informatics Institute of Technology affiliated with University of Westminster

● GCE Ordinary Level 2009 - 2019

- Results : 4A, 4B, C
- Colombo Hindu College

Skills

Programing Languages	Back End	Front End	Database	Languages
<ul style="list-style-type: none">• Java• Python• JavaScript• R	<ul style="list-style-type: none">• Spring Boot• Node.js• Flask• Fast API	<ul style="list-style-type: none">• React.js• Angular.js• Vue.js	<ul style="list-style-type: none">• MySQL• MongoDB• Firebase	<ul style="list-style-type: none">• English• Tamil

Projects

- **QuanNetDetect - Flask | PennyLane | Qiskit | React.js | MongoDB** 2025
 - A system focused on detecting encrypted malicious TLS traffic using quantum deep learning models for enhanced accuracy, efficiency, and interpretability.
- **EmploySync Platform - Node.js | Angular.js | MongoDB | Docker | Figma** 2025
 - Launched a healthcare e-procurement platform with vendor, customer, and admin portals, now utilized by 50+ healthcare professionals across supply chain and procurement teams.
- **CarNexus Platform - Flask | React.js | Tailwindcss | MongoDB** 2024
 - A smart vehicle service booking platform integrating machine learning for optimized scheduling, featuring customer and service owner roles, seamless bookings, and exclusive member benefits.
- **MedEase Procurement System - Flask | React.js | MongoDB | Swagger | Keras | Tensorflow** 2023
 - A web based application for healthcare e-procurement with vendor, customer, and admin roles, streamlining supply requests, orders, and stock management.

Achievements

- **Cutting Edge 2025 by IIT - 1st runners up** 2025
 - Secured 1st runners up at IIT Cutting Edge 2025 for QuanNetDetect project. A showcase competition where all perspective of business scope of the project will be verified
- **Best Undergraduate Research Project - University of Moratuwa (ADScAI)** 2025
 - The ADScAI conference held by the University of Moratuwa awarded the best undergraduate research to QuanNetDetect, a quantum framework for enhanced encrypted security.
- **Haxmas Hackathon by RACITT - 1st runners up** 2023
 - Built ElderGuardian, a VR live conferencing MVP with motion detection to improve awareness and communication between elderly users and their families. - 1st runners up
- **IEEE Innovation Nation Sri Lanka - 1st runners up** 2023
 - IEEE INSL awarded first runner-up to Immersive Smile Plus, a virtual reality application implemented to treat a patient's psychological suffering.

Extracurricular Activities

Clubs and Societies	Singing
<ul style="list-style-type: none">• PR member - Rotaract Club of IIT (2020 - 2022)• Committee member - Interact of Colombo Hindu College (2018 -2019)	<ul style="list-style-type: none">• Stagecraft group singing finalist - IIT (2024).• Solo Carnatic music winner - Colombo Hindu College(2018)

References

Mr. A. S. Anzaf Ahamed Software Engineer Petvisor No. 304, 1a Union Pl, Colombo 02 Tel : +94-0762634411 (Mobile)	Mr. Guhanathan Poravi Senior Lecturer Grade I Informatics Institute of Technology No. 57, Ramakrishna Road, Colombo 06 Tel: +94-0775913330 (Mobile)
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