


CONTACT

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Nugewela, Kandy.
-  Hamood Thariq

EDUCATION

- 
- Higher National Diploma in
Software Engineering - NIBM
(2024-2025)
- Diploma in Software Engineering -
NIBM (2023-2024)
- GCE O/L - Wesswood
International College (2010-2022)

KEY SKILLS

- Project Management
- Public Relations
- Teamwork
- Time Management
- Leadership
- Effective Communication
- Critical Thinking

LANGUAGES

- English (Native)
- Sinhala (Native)
- Tamil (Intermediate)

AWARDS

- Smart Student Award - Wesswood
International College (2022)
- Spirit of Service - 34th Rotaract
District Assembly(2025)
- Member of the Month (July) -
Rotaract Club of Kandy Hill Capital
(2024)

HAMOOD THARIOQ

SOFTWARE ENGINEER | BACK-END
ENGINEER | EMBEDDED SYSTEMS
ENGINEER | PROJECT MANAGER



PROFILE

Passionate Software Engineering undergraduate at the National Institute of Business Management with a strong interest in software development, mobile apps, IoT, robotics, and enterprise solutions. Skilled in problem-solving and teamwork, with a focus on leveraging technology to address real-world challenges and drive innovation. Eager to contribute to impactful and collaborative projects in the IT industry.

CORE COMPETENCIES

Languages: C, C++, C#, Java, JavaScript, Kotlin, SQL, PL/SQL
Web: HTML, CSS, JS, Node.js, Thymeleaf, REST, RESTful APIs, Spring Boot, .NET, MVC
Mobile: Kotlin, FlutterFlow
Desktop: Java Swing, .NET
Databases: MySQL, Oracle SQL
Data/BI: Power BI, SQL
Tools: Git, GitHub, Arduino, Processing
Concepts: CRUD, RESTful APIs, MVC

PROJECTS

Landslide Detection and Monitoring System

Duration: Jan 2025 – Apr 2025

Developing a real-time landslide detection system using IoT, robotics, and AI to enhance disaster preparedness in Sri Lanka. The system monitors soil moisture, ground vibrations, and rainfall, sending instant mobile alerts to residents and authorities when risk thresholds are reached. Using AI and machine learning to improve predictions, the project aligns with NBRO standards to ensure effective deployment. Aims to provide a scalable, cost-effective solution to reduce landslide risks.

Skills: Project Management • Project Planning • Presentation Skills • Communication

Power BI Retail Sales Dashboard

Duration: May 2025 - Jun 2025

Built an interactive dashboard in Power BI analyzing 51,000+ sales records across 25 attributes, focusing on sales trends, regional performance, product demand, and shipping efficiency. Managed data cleaning, transformation, and modeling to ensure accuracy, and used clear visual storytelling to present insights for better decision-making. This project strengthened my practical BI reporting and data analysis skills while delivering accessible, actionable business insights.

Skills: Data Analysis • Business Intelligence (BI) • Presentation Skills • Team Management

CERTIFICATIONS

- Project Management Reinvented for Non-Project Managers - **LinkedIn Learning**
- Certificate in Software Testing and Quality Assurance - **Institute of Management, Technology and Finance**
- Programming in HTML with JavaScript and CSS3
- Hands-on Introduction: Java
- Introduction to NoSQL

ADDITIONAL EXPERIENCE

- **Professional Development Director**
Rotaract Club of Kandy Hill Capital
2025 - Present
- ▲ **General Member**
Rotaract Club of Kandy Hill Capital
2024 - 2025
- **Co Lead - STEM UP**
NIBM Kandy
2025 - Present
- ▲ **Volunteer- STEM UP**
NIBM Kandy
2023 - 2024
- **Committee Member - NIBM IT Society**
NIBM Kandy
2023 - 2024
- **Batch Representative - 1st Year 1st semester**
NIBM Kandy
2023 - 2024

REFERENCES

Anjula Weerasinghe
Course Director - Higher National Diploma in Software Engineering,
NIBM Kandy
anjula@nibm.lk
0705621604

Razmi Zahir
Head of IT
Asian International School,
Colombo 5
razmi@ais.lk
0776429601

Vegetable & Fruit E-commerce Web Application

Duration: May 2025 - Jun 2025

As part of our Higher National Diploma in Software Engineering, we conducted a statistical study exploring whether undergraduates are losing independent thinking skills due to frequent AI use. Using surveys and applying descriptive, correlation, and regression analysis on responses from 30 NIBM undergraduates, we examined the relationship between AI usage, productivity, and academic confidence. Findings showed AI tools are widely used for coding and research, with a moderate trend suggesting frequent AI users may feel slightly less confident working independently, highlighting the need to balance AI support with critical thinking development in education.

Skills: Statistics · Data Analysis · Google Sheets · Microsoft Excel · jamovi · Statistical Data Analysis · Descriptive Analysis

AI and Academic Autonomy Study

Duration: May 2025 - Jun 2025

Developed a clean, user-friendly e-commerce platform for a vegetable and fruit store using HTML, CSS, JavaScript, Java (Spring Boot), and MVC architecture. Customers can browse categories, view product details, add items to cart, and place orders seamlessly. Focused on responsive design and intuitive navigation to enhance the online shopping experience, with a structured backend ensuring reliable product and order management.

Skills: Web Application Development · Spring Boot · Model-View-Controller (MVC) · HTML5 · Cascading Style Sheets (CSS) · JavaScript · Node.js · Spring MVC

Warehouse Inventory Robot

Duration: Jan 2025 – Apr 2025

Developed a low-cost warehouse inventory robot using Arduino Mega to assist with inventory tracking. Controlled via a custom mobile app, it features dual ultrasonic sensors for obstacle detection and an MPU9250 IMU for orientation tracking. Built with a modular design for future upgrades like SLAM and autonomous navigation, combining robotics and IoT concepts for practical warehouse automation.

Skills: Electronics · Programming · Robotics · Arduino · Arduino IDE · Processing · Project Management · Project Planning · Team Management

QuickCart

Duration: Jul 2024 – Nov 2024

Developed **QuickCart**, an all-in-one mobile app for purchasing goods and accessing services like transport, food delivery, and on-demand providers. Designed to simplify daily life by unifying diverse needs under a single platform. Built using Flutter, Firebase Authentication, Firestore, and Firebase Storage as part of the Diploma in Software Engineering final project at NIBM.

Skills: Application Development · Dart · Flutter · Database Management System (DBMS) · Programming · Project Management · Software Development · Software Development Life Cycle (SDLC) · Teamwork

EduSync – Academic Management System

Duration: July 2024 - September 2024

Developed a desktop application to help students manage attendance, GPA tracking, budget management, and task scheduling. Built with Java Swing, MySQL, and JDBC, implementing user login, CRUD operations, and personalized dashboards for effective academic task management. Developed a desktop application to help students manage attendance, GPA tracking, budget management, and task scheduling. Built with Java Swing, MySQL, and JDBC, implementing user login, CRUD operations, and personalized dashboards for effective academic task management.

Skills: Java · Java Swing · MySQL · Java Database Connectivity (JDBC)

Smart Garbage Management System

Duration: July 2024 - September 2024

Developed a low-cost, sensor-based system for real-time waste bin fill-level monitoring to optimize urban waste collection. Automatically alerts authorities when thresholds are reached, reducing overflow and unnecessary trips, with a manual override for urgent requests. Designed using TinkerCad circuit simulation and logic circuits as part of broader IoT and smart city sustainability initiatives.

Skills: Electronics · Autodesk Tinkercad