

Enthusiastic Person

Profile A creative and detail-oriented undergraduate seeking a developer position in software engineering. Eager to contribute to an organization's success by utilizing technical and interpersonal skills to develop and upgrade technology while gaining practical experience.

GitHub: [Akila - GitHub](#)

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Trainee - Browns Engineering and Construction (Pvt) Ltd - Through the National Apprenticeship

April 2023 – October 2023

Industrial Training Authority (NAITA)

Field Visits and Quality Control:

- Conducted fiber fault fixes and fiber splicing to ensure seamless connectivity and Performed Cabinet quality control.
- Evaluated link (telephone wires) quality, focusing on fiber line layering, pole-to-pole quality, and coil arrangements.
- Conducted OTDR (Optical Time Domain Reflectometer) testing at fiber exchanges to measure fiber performance.
- Maintained accurate records of goods and contributed to efficient warehouse operations and accurate inventory tracking.
- Utilized Huawei's Integrated Services Digital Platform software for data management and analysis.
- Performed as-built surveys, documenting final dimensions, materials, and locations of construction projects.

E-Commerce Application (ASP.NET CORE MVC)

- Developed a real-world e-commerce application using ASP.NET Core MVC, Entity Framework Core, and ASP.NET Core Identity with .NET 8 MVC.
- **Frontend and UI:** Implemented a responsive design using Bootswatch themes, Bootstrap icons, DataTables API, and SweetAlerts for user interaction.
- **Shopping Cart Module:** Designed a dynamic shopping cart to add, update, and remove items with real-time order total calculation.
- **Order Module:** Developed order summary and detail tables with status tracking, Stripe payment integration, and order confirmation functionality.
- **Authentication and Authorization:** Extended ASP.NET Identity for custom roles (Admin, Employee), Facebook login integration, and user management
- **Admin Dashboard:** Added CRUD operations for categories, companies, and products with validations and rich text editing.
- **Email Notifications:** Configured SendGrid for email notifications and account confirmations.
- Implemented N-Tier Architecture, Repository Pattern, and Unit of Work for clean and maintainable code.
- Created and managed databases and relationships using Entity Framework Core with seeding and migrations.
- Integrated client-side and server-side validation for robust form handling.
- **Technologies Used:** ASP.NET Core MVC, Entity Framework Core, ASP.NET Core Identity, Bootstrap, DataTables API, Stripe, SendGrid, C#, SQL Server.

Billing and Inventory Management System

- Designed and developed a comprehensive billing and inventory management system using Visual Studio 2022 and MS SQL Server 2019.
- Created and implemented modules for Users, Categories, Products, Dealers/Customers, and Transactions.
- Developed a user-friendly Admin and User Dashboard, incorporating functionalities such as:
 - User Authentication: Login functionality and session management.
 - CRUD Operations: Add, update, delete, and search features across all modules.
 - Inventory Management: Real-time tracking of product quantities and categories.
 - Transaction Management: Handled purchase/sales transactions with subtotal, grand total, and return calculations.
 - Reporting: Filter and display transactions by type and products by categories.
- Integrated a bill-printing feature and optimized database connectivity with connection strings.
- **Technologies Used:** Visual Studio 2022, MS SQL Server 2019, C#, NET Framework, ADO.NET.

- **Robotics - Wireless Hand Motion-Controlled Robot:** Developed and implemented a wireless hand motion-controlled robot using motion sensors and Arduino microcontrollers.

- **Design and Implementation of an Electronic Balance:** Designed and implemented an electronic balance for precise weight measurement.
- **IoT-Based Distribution Transformer Monitoring System**
- **Technologies Used:** Arduino, C/C++, Python, Arduino IDE, Bluetooth, Wi-Fi, Git, GitHub, Visual Studio Code.

Technologies and Tools : [HTML](#) | [CSS](#) | [JavaScript](#) | [C#](#) | [.NET CORE MVC](#) | [.NET CORE Identity](#) | [.NET Framework](#) | [Entity Framework Core](#) | [LINQ](#) | [SQL SERVER 2019](#) | [ADO.NET](#) | [GIT](#) | [GITHUB](#) | [Visual Studio 2022](#) | [SQL Server Management Studio 2019](#) | [Bootstrap](#)

Skills : Organization Skills | Problem Solving | Teamwork | Communication skills

Bachelor of Information Technology (Reading).

2021 – Present

- University of Colombo School of Computing

Higher National Diploma in Electrical and Electronic Engineering.

2019 – 2023

- Advance Technological Institute in Labuduwa. Under specialization of Electrical and Telecommunication Engineering.

G.C.E Advance Level Maths Stream with C,C,S and G.C.E Ordinary Level with 8As (Ku/ Ibbagamuwa Central Collage.)

- Operating system and you: Becoming a power user. And The Bits and Bytes of Computer Networking. (Google IT Support Certification).
- Technical Support Fundamentals. (Google)
- Introduction to TCP/IP.

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I hear by certify that the above mentioned particular are true and accurate the best of my Knowledge.

Your truly, Akila Wijerathna.

06/12/2024