# Akila Wijerathna

Full-Stack Software Engineer . UI/UX

Meticulous Full-Stack Developer with a proficiency for crafting exceptional web applications. Skilled in modern web technologies and driven by innovation. Thrives in dynamic teams, translating complex requirements into intuitive, high-performance interfaces. Committed to enhancing user experience and solving problems efficiently.

⊙ **Kurunegala** 📞 **+94 76 1069138** @ [akilawijerathna5@gmail.com](mailto:akilawijerathna5@gmail.com) 🔗 [Akila Wijerathna](#) ⓞ [Akila - GitHub](#) ⓖ [Akila Wijerathna](#)

**HTML | CSS/SCSS | Vanilla JavaScript (ES6) | React | Next.js | Prisma | Recharts | Tailwind CSS | Bootstrap | React Toastify | Framer Motion | Clerk | Cloudinary | NodeJS | Ajax/ fetch API/ Axios | RESTful API | Context API**
**React Router | React Query / V4+ (Tanstack) | Browser APIs**
**C# | .NET CORE | .NET Framework | Entity Framework Core | SQL Server 2019 | PostgreSQL | MongoDB | ADO.NET**
**Docker | GIT | GitHub | NPM | Vite | Webpack | Babel (basic) | Postman | Figma**
**Basic cloud knowledge**

Organization Skills | Problem Solving | Teamwork | Communication skills
English | Sinhala

## Education

### Bachelor of Information Technology (Reading).
**2021 – Present (final year)**
- University of Colombo School of Computing

### Higher National Diploma in Electrical and Electronic Engineering.
**2019 – 2024**
- Advanced Technological Institute in Labuduwa. Under specialization of Electrical and Telecommunication Engineering.

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

## Projects
( More projects [Akila –GitHub](#) or [Web - Akila Wijerathna](#) )

### Real-Time Chat Application | MERN Stack
Designed and developed a responsive, real-time chat application using MongoDB, Express.js, React, and Node.js (MERN).
- Built a modern UI with Tailwind CSS and Daisy UI to enhance user experience.
- Implemented secure authentication and authorization using JWT for token-based login/logout.
- Integrated Socket.io for real-time messaging with instant delivery and online/offline status tracking.
- Utilized Zustand for efficient global state management and seamless data flow.
- Created user profile and settings management pages for customization.
- Developed robust error-handling mechanisms for server and client operations.

**Technologies:** MongoDB, Express.js, React, Node.js, Socket.io, Tailwinds, Daisy UI, Zustand, JWT

### Full-Stack School Management Application | Next.js, Prisma
Built a dynamic school management platform, providing role-based access control for admins, teachers, and students to manage data and perform tasks efficiently.
- Configured PostgreSQL with Prisma ORM to manage data, including teachers, students, exams, and assignments.
- Optimized data fetching using Prisma and Next.js with advanced pagination, search filters, and query parameters.
- Designed custom dashboards for admins and teachers with real-time data updates.
- Integrated a calendar component for managing events and recurring schedules.
- Developed in-app notifications using React Toastify and integrated secure image uploads via Cloudinary.
- Containerized the application with Docker to streamline development, deployment, and scalability.

**Technologies:** Next.js, Prisma, PostgreSQL, Docker, Tailwind CSS, React Toastify, Clerk, Cloudinary

### React Admin Dashboard | React
Developed a scalable and reusable admin dashboard with React, focusing on component reusability and maintainability.
- Styled the interface using Tailwind CSS to ensure a responsive and visually modern design.
- Implemented interactive and insightful data visualizations with Recharts for better decision-making.
- Managed application state efficiently to enable real-time data updates and seamless user interactions.
- Enhanced UI/UX through smooth animations and transitions using Framer Motion.
- Optimized dashboard performance for faster load times and improved responsiveness.

**Technologies:** React, Tailwind CSS, Recharts, Framer Motion

### E-Commerce Application | ASP.NET Core MVC

Developed a full-featured e-commerce application using ASP.NET Core MVC, Entity Framework Core, and ASP.NET Core Identity with .NET Core 8.

- Built a dynamic shopping cart module with real-time order total calculation and item management.
- Developed an order module with status tracking, payment integration, and order confirmation functionality.
- Extended ASP.NET Identity for custom roles (Admin, Employee) and secure authentication with user management features.
- Configured SendGrid for email notifications, including order confirmations and account-related updates.
- Utilized N-Tier Architecture, Repository Pattern, and Unit of Work to ensure clean, scalable, and maintainable code.

**Technologies:** ASP.NET Core MVC, Entity Framework Core, ASP.NET Core Identity, .NET Core 8, Bootstrap, DataTables API, C#, SQL Server, Sweet Alerts

### Billing and Inventory Management System | .NET Framework

Designed and developed a billing and inventory management system using Visual Studio 2022 and MS SQL Server 2019.

- Built an intuitive Admin and User Dashboard with user authentication and session management.
- Implemented real-time inventory management, tracking product quantities and categories efficiently.
- Added reporting features to filter and display transactions by type and products by categories.
- Integrated a bill-printing feature and optimized database connectivity using ADO.NET.

**Technologies:** Visual Studio 2022, MS SQL Server 2019, C#, .NET Framework, ADO.NET

## Academic Projects

- **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.

## Experience

**Trainee - Browns Engineering** - Through the National Apprentice Industrial Training Authority (NAITA)      **April 2022 – February 2023**
**Quality Control Specialist**

- Conducted fiber splicing, OTDR testing, quality evaluations, and as-built surveys, ensuring seamless connectivity and accurate project documentation using Huawei's Integrated Services Digital Platform.

## Certifications

- 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.

## Additional Skills

- **WordPress Management**: Customized WordPress themes and plugins, and performance optimization
- **SEO Optimization**: Implemented on-page and technical SEO strategies, including keyword research and meta tag optimization.
- **Analytics & Reporting**:  Google Analytics, Google Search Console, SEMrush, Ahrefs
- **Content Creation:** Blog posts and web contents tailored for target audiences.

## Reference

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**I hereby certify that the above mentioned particular are true and accurate the best of  my Knowledge.**
Your truly, Akila Wijerathna.
25/01/2025