

# DINUKA DILSHAN

## Software Engineer

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Matara, Sri Lanka  
Dinuka Dilshan  
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Results-driven Software Engineer with over 2 years of experience in designing and developing efficient, scalable, and user-centric enterprise-level web applications. Proficient in TypeScript, C#, Node.js, and React, with a proven track record of delivering optimized user experiences and seamless cloud integrations using AWS. Passionate about leveraging technical expertise and creativity to contribute to innovative projects in a dynamic and collaborative team environment. Seeking a challenging role to drive impactful solutions and grow alongside cutting-edge technologies.

## TECHNICAL SKILLS

<b>Languages:</b> C#, TypeScript, JavaScript, HTML, CSS	<b>Frameworks:</b> React, Express.js, Node.js, jQuery, Next.js, C# .NET	<b>Front end technologies:</b> Mui, Bootstrap, Vite, Redux, React Query	<b>Data Interchange Formats:</b> XML, JSON, YAML
<b>Mobile Technologies:</b> React Native	<b>Databases:</b> MySQL, PostgreSQL, DynamoDB, Firebase, MongoDB	<b>Cloud Technologies:</b> AWS, AWS CDK	<b>Version Control:</b> Git

## PROFESSIONAL EXPERIENCE

### Software Engineer | Villvay Systems (Pvt) Ltd

January 2025 – April 2025

#### Projects

##### Wurth bear suppliers e-commerce application (Frontend & Backend)

- Developed the frontend for Wurth Bear Suppliers' eCommerce application, utilizing Next.js for server-side rendering and React for building dynamic, interactive user interfaces.
- Used Tailwind CSS for efficient, responsive design, ensuring a seamless user experience across various devices and screen sizes.
- Integrated React Query to handle data fetching and state management, optimizing application performance and reducing unnecessary re-renders.
- Utilized Shadcn/ui to design and develop reusable, modular UI components, contributing to a consistent and maintainable codebase.
- Employed GitHub for version control, collaborating with cross-functional teams to ensure smooth code management, issue tracking, and timely delivery of features.
- Deployed the application on Vercel, implementing continuous deployment practices for automatic updates and ensuring high availability and scalability of the application.

### Software Engineer | Aeronology

March 2023 - January 2025

#### Projects

##### Aerocontrol (Frontend & Backend)

- Developed and maintained the frontend, implementing efficient data-fetching mechanisms from backend services for a seamless user experience.
- Designed and built a reusable table component, featuring expandable rows, data fetching, caching, and CRUD operations for project-wide use.
- Contributed to login and authorization management, ensuring secure and efficient access for multiple user roles.
- Implemented role-based features and navigation, delivering tailored user experiences based on permissions.
- Addressed backend functionality, including bug fixes and schema updates, by adding new fields to align with schema changes and maintain system integrity.
- Utilized modern technologies such as **React, TypeScript, Material-UI (MUI), React Query, Redux, React Hook Form, Yup, Axios, C#, .NET, and AWS** to deliver a high-quality and scalable solution.

##### Taero (Frontend & Backend)

- Developed a hotel search component, incorporating efficient data fetching, caching, and windowing for optimized performance.
- Created a custom image slider, automatically skipping empty images retrieved from third-party APIs to enhance usability.
- Designed and implemented an airline filter component, enabling users to filter based on time, carrier, and other criteria.
- Built and maintained the hotel manage booking screen, including data fetching, caching, and CRUD operations in a dynamic table interface.
- Developed a hotel filter component on the search page, allowing filtering by ratings, price, and options such as full board or half board accommodations.
- Actively contributed to backend functionality, leveraging a backend-for-frontend architecture powered by AWS Lambda services.
- Played a key role in implementing new backend features and resolving bugs to improve user experience and application stability.
- Utilized modern frontend and backend technologies, including **React, TypeScript, Material-UI (MUI), React Query, Redux, React Hook Form, Yup, Axios, Node.js, AWS, Inversify, and Express**.

##### Datalnsight (Frontend)

- Improved code quality of an existing project originally developed by backend engineers, ensuring maintainability and scalability.
- Migrated the project from GraphQL to REST APIs, enhancing performance and simplifying integration processes.
- Introduced React Query to manage server-state effectively, improving data fetching and caching mechanisms.
- Leveraged modern technologies, including **React and TypeScript**, to deliver a high-quality, maintainable frontend solution.

### Webtop Ticketing (Frontend & Backend)

- Enhanced the Fare Builder component in the frontend by introducing new fields to accommodate onboarding customer requirements, ensuring adaptability and business alignment.
- Optimized API calls with caching, significantly improving application performance and reducing response times.
- Adjusted AWS Lambda invocations in the backend by adding new parameters and implementing conditional logic to meet evolving customer needs.
- Utilized a modern tech stack, including **React, TypeScript, Node.js, AWS Lambda, GraphQL, and Material-UI (MUI)**, to deliver scalable and efficient full-stack solutions.

### Sabre Webtop Ticketing (Backend)

- Developed AWS Lambda functions in C# for seamless ticketing workflow integration with the frontend.
- Implemented after-departure reissue functionality:
  - Processed requests from the frontend.
  - Issued commands to Sabre endpoints (SOAP/REST).
  - Stored ticket invoices in an S3 bucket.
  - Sent responses back to the frontend.
- Used C#, AWS Lambda, and DynamoDB for scalable backend solutions.

## Software Engineer (Intern) | Aeronology

Sep 2022 - Mar 2023

### Projects

#### Aero Frontend Common Library (Frontend)

- Contributed to the development of a shared component library used across all Aeronology frontend applications, enhancing consistency and reusability.
- Added new components and improved existing ones to streamline development processes and improve functionality.
- Utilized modern frontend technologies, including **React, Material-UI (MUI), TypeScript, and Storybook**, to build robust, reusable components

#### Aeronology Website

- Improved the corporate website by adding new features and resolving bugs, enhancing functionality and user experience.
- Leveraged technologies such as **React, TypeScript, and Material-UI (MUI)** to deliver high-quality web solutions.

## PROFESSIONAL QUALIFICATIONS & CERTIFICATIONS

- **TypeScript: The Complete Developer's Guide – Udemy**
- **React, NodeJS, Express & MongoDB: The MERN Fullstack Guide – Udemy**
- **The Complete 2021 Web Development Bootcamp – Udemy**
- **SQL (Basic) Certificate – HackerRank**
- **JavaScript (Basic) Certificate – HackerRank**
- **JavaScript (Intermediate) Certificate – HackerRank**
- **Java (Basic) Certificate – HackerRank**
- **React Certification – TestDome**

## EDUCATION

### BSc (Hons) in Management and Information Technology Specializing in IT

Mar 2020 - Mar 2024

*University of Kelaniya - Sri Lanka First Class (GPA 3.71)*

### G.C.E. Advance Level (B,B,C)

Jan 2015 - Aug 2018

*Rahula College - Matara*

## PUBLICATION

### The Impact of Teleworking on Sri Lankan University Internship

2024

Programs: Systematic Review of Literature

## LANGUAGES

English - Native/Fluent

Sinhala - Native

## REFERENCES

### Mr. Darshana Vithanage

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