

Lahiru Karunathilaka

Software Engineer

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SUMMARY

Results-driven Software Engineer with 3 years of experience designing and delivering scalable full-stack web applications across e-commerce, EdTech, and enterprise domains. Proficient in React.js, Next.js, Node.js and NestJS, with a strong command of both frontend performance optimization and backend architecture. Demonstrated ability to lead feature development, mentor junior engineers, and collaborate cross-functionally with UI/UX designers and stakeholders to ship high-quality products on time. Adept at working in Agile environments and committed to writing clean, maintainable code that drives real business impact.

WORK EXPERIENCE

BIG ZKOOP – Novemebr 2022 – Present

Software Engineer (July 2025 – Present)

- Developing scalable full-stack applications using modern technologies such as React, Next.js, Node.js, Nestjs.
- Designing and optimizing frontend and backend services, as well as database structures for performance and maintainability.
- Mentoring interns and junior developers on best practices while owning the product in front-end and project workflows to ensure quality and timely deliver.

Associate Software Engineer (May 2023 – June 2025)

- Contributed to both frontend and backend development using React, Next.js, Node.js and Nestjs.
- Assisted in system architecture decisions and participated in code reviews.
- Guided UI/UX designers to create user-centric designs that effectively addressed key business scenarios.
- Developed and maintained RESTful APIs to enhance system performance and scalability.

Trainee Software Engineer (November 2022 – May 2023)

- Gained hands-on experience in full-stack development and best coding practices.
- Collaborated with senior developers to build and deploy real-world applications.
- Assisted in debugging, testing, and optimizing code for improved efficiency.

SKILLS SUMMARY

- Programming Languages:** JavaScript, Typescript, Python
- Front-End Development:** React, Next.js, Tailwind, CSS3, HTML5, Redux, Saga, Zustand, React-Query, Material Ui, Chakra UI, shadcn
- Back-End Development:** Node.js, Nestjs, Express.js, TypeOrm, Prisma, Restful API, GraphQL, Redis, BullMQ, WebSocket
- Database:** PostgreSQL, MySQL, MongoDB
- DevOps and Tooling:** GitHub Action, CI/CD, Docker, payhere, SEO, AWS, Vercel, Agile, Postman, Jest, React Testing Library
- Soft Skills:** Critical thinking, Excellent problem solving, Quick and self-learner, Adaptability, Ability to analyze complex technical information

EDUCATION

BSc (Hons) in Computer Science and Software Engineering	2019-2022
University Of Bedfordshire (UK) at SLIIT	Second Class Upper
GCE A/L Mathematics Stream	2015 – 2017
Ranabima Royal College, Kandy	

KEY PROJECTS

FashionNestLK Project – Next.js | Tailwind | Redux Saga | Nestjs | Prisma | PostgreSQL | AWS | Redis | BullMQ
E-Commerce website, customer facing website, an admin dashboard and designer portal for custom T-shirt design.

- Led development of **Admin Dashboard and Designer Portal**, building scalable and intuitive UIs with **Next.js and React**.
- Designed and implemented **RESTful APIs**, including secure **authentication and role-based authorization**.
- Developed end-to-end features for managing **users, designers, products, orders, and payments**.
- Optimized frontend performance using **code splitting, lazy loading, and efficient state management**.
- Improved SEO and performance using **Next.js SSR/SSG strategies**, increasing visibility of the marketing website.
- Integrated backend services with **Redis caching and BullMQ queues** to enhance scalability and responsiveness.

Zkoop Academy Project | React | Redux Saga | Tailwind | Firebase storage | Nestjs | TypeOrm | PostgreSQL
Learning Material platform to manage students, courses, exams, quiz.

- Played a key role in **system architecture and database design**, ensuring scalability and efficient data relationships.
- Developed secure **RESTful APIs with authentication and authorization** using **NestJS and TypeORM**.
- Built and maintained the **Admin Panel**, delivering responsive and user-friendly interfaces in **React**.
- Implemented core modules including **exam generation, question/answer management, and course workflows**.
- Integrated **Firebase Storage** for efficient file and media handling.
- Collaborated with UI/UX designers to align product features with business requirements.

Eddwise Project – Next.js | Tailwind | Redux Saga | Axios | React-strap
Admin panel and marketing web for Institute.

- Developed responsive and high-performance UIs using **Next.js**, ensuring smooth user experiences.
- Integrated **RESTful APIs** with optimized data handling and error management using **Axios**.
- Managed asynchronous workflows using **Redux Saga**, improving application stability and data flow.
- Enhanced SEO using **SSR/SSG, meta tags, and structured content**, improving search engine rankings.
- Built reusable UI components with **Tailwind CSS and Reactstrap** for maintainability and scalability.

Adamanth HRMS Project – React | tailwind | Redux Saga | Axios | Material Ui

Human resource management system for man power agency in USA.

- The main requirements of the project were to create a system that can manage employees, manage clients that connected with the company, paysheets and timesheets, etc
- Developed scalable and responsive frontend applications using **React**, focusing on usability and performance.
- Implemented **API integrations** with centralized error handling and optimized data fetching strategies.
- Managed complex state and asynchronous processes using **Redux Saga**.
- Built key modules for **employee management, client management, payroll, and timesheets**.
- Improved application performance by **30%** through memorization and reducing unnecessary re-renders.
- Developed reusable UI components using **Material UI and Tailwind CSS** for consistent design.

Final year group project – React | Bootstrap | Node.js | Express.js | MySQL

E-commerce website for Chathuranga car sale.

- The group project has done according to the agile methodology. The objective was to increase sales of the chathuranga car sale.
- Designed and developed a **full-stack web application** following **Agile methodology**.
- Built **RESTful APIs with authentication and authorization** using **Node.js and Express.js**.
- Designed relational database schema and implemented backend logic with **MySQL**.
- Developed responsive frontend interfaces and integrated them with backend services.
- Delivered a user-friendly platform to improve **customer reach and business efficiency**.

REFERENCES

Available upon request.