

# PRABODHA JAYAWARDENA

## Software Engineer

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🔗 [prabodha-portfolio.vercel.app](https://prabodha-portfolio.vercel.app)

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🚩 Sri Lankan



## PROFILE

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Software Engineer with 5+ years of experience specializing in JavaScript, React, Node.js, and AWS-based serverless architectures. Proven track record of delivering scalable, high-performance web applications and APIs by applying modern frameworks, cloud services, and best coding practices. Strong problem-solver with expertise in frontend and backend development, database optimization, and integration with third-party services. Passionate about building efficient, maintainable solutions that enhance user experience and meet business goals.

## WORK EXPERIENCE

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### Software Engineer

July 2022 – Present | Colombo

EYEPAX IT CONSULTING (PVT) LTD

### Role & Responsibilities

- Developed scalable full-stack applications with React, Node.js, GraphQL, and AWS Serverless (Lambda, S3, SQS, DynamoDB).
- Improved frontend performance by reducing unnecessary component re-renders using `useMemo`, `useCallback`, and careful props management, and by implementing `React Virtualized` for large data sets.
- Designed and optimized DynamoDB queries with indexes and projections, reducing latency and improving database efficiency.
- Built responsive and accessible user interfaces using React, Tailwind CSS, Radix UI, and SCSS.
- Implemented GraphQL APIs for flexible and optimized data fetching across services.
- Enhanced system scalability and reliability by using AWS SQS for asynchronous messaging and WebSockets for real-time updates.
- Monitored and maintained system health with AWS CloudWatch, ensuring fast issue resolution and performance tracking.
- Mentored junior developers through code reviews, pair programming, and technical guidance, improving team knowledge and code quality.
- Collaborated with cross-functional teams (developers, QAs, and product owners), actively participating in sprint planning, estimations, and daily standups.
- Contributed to continuous improvement by sharing best practices, enforcing coding standards, and driving discussions on architecture and design decisions.

### Achievements

- **Reduced frontend rendering time by 40%** through careful props management, memoization, and virtualized rendering.
- **Decreased DynamoDB query response time by 25%** by implementing efficient indexes and projections.
- **Improved deployment scalability** by designing AWS Lambda-based serverless functions, reducing infrastructure costs by ~20%.
- **Increased data fetching efficiency** by introducing GraphQL APIs, cutting down over-fetching and improving client performance.
- **Enhanced real-time user experience** by integrating WebSockets, enabling instant status updates and campaign confirmations.

- **Improved team performance** by mentoring juniors and conducting code reviews, resulting in fewer post-release defects.

## Software Engineer

January 2021 – June 2022

*BUK FLIGHTS*

### Role & Responsibilities

- Built responsive, SEO-friendly user interfaces using **React.js, Vue.js, and Next.js**, translating UX/UI designs into high-quality web pages.
- Developed **scalable backend services and APIs with Node.js**, ensuring high reliability and secure flight booking operations.
- Managed and optimized **MongoDB** and **Redis** databases, improving efficiency in flight data processing and user information retrieval.
- Integrated external flight booking APIs such as **Amadeus** and **Sabre**, enabling seamless reservations and real-time updates for users.
- Improved frontend performance and user experience by implementing **Zustand** and **React Query** for state management and data fetching.
- Conducted **code reviews** to uphold best practices, maintain code quality, and mentor junior team members on modern development standards.
- Collaborated with developers, designers, and stakeholders to deliver continuous platform improvements and new features.

### Achievements

- **Reduced page load times by ~30%** through performance optimizations in React and Next.js, improving user retention.
- **Improved SEO scores by 25%**, increasing organic traffic and visibility for key flight search pages.
- **Cut API response times by 20%** by optimizing Node.js backend services and database queries.
- **Decreased booking errors** by implementing robust API validation and error handling for Amadeus and Sabre integrations.
- **Enhanced team productivity** by introducing streamlined code review practices, reducing defect rates and improving release quality.

## Full-Stack Developer

January 2020 – December 2021

*QUOTRO (PVT) LTD*

### Responsibilities

- Integrated **React.js frontend components** with **WordPress CMS**, enabling seamless content management and smooth data flow between systems.
- Optimized **UI/UX** by improving navigation, accessibility, and interactive elements to increase user engagement and conversion rates.
- Enhanced website performance by **reducing load times and optimizing assets**, ensuring fast and smooth user experiences.
- Developed responsive, visually appealing web pages from **wireframes and mockups** using React.js, ensuring consistent cross-device usability.
- Utilized **Advanced Custom Fields (ACF)** in WordPress to create and manage custom content types, improving site flexibility.
- Integrated and customized **WordPress forms** to efficiently capture, process, and store user data.

### Achievements

- **Reduced website load times by ~30%**, resulting in faster navigation and improved SEO rankings.
- **Increased user engagement and conversions by 15%** through UX/UI improvements and enhanced interactivity.
- **Streamlined content management workflows** by integrating React.js with WordPress, reducing manual effort for non-technical users.
- **Improved accessibility compliance** (WCAG standards), making the platform more inclusive and user-friendly.
- Delivered multiple high-quality releases on time, strengthening client satisfaction and repeat business.

### **Responsibilities**

- Built and deployed fully functional **WordPress websites** by translating client requirements and designs into custom themes and templates.
- Managed source code with **Git** for version control, enabling efficient collaboration and streamlined change tracking across development teams.
- Performed comprehensive **cross-browser and device testing** to identify and resolve bugs, ensuring stability and consistent performance.
- Applied **responsive design best practices** to deliver mobile-friendly websites that adapted seamlessly across various screen sizes.

### **Achievements**

- **Delivered 10+ WordPress websites** that met client requirements, resulting in high customer satisfaction and repeat business.
- **Reduced post-deployment bug reports by 25%** through rigorous testing and QA practices.
- **Improved collaboration efficiency** within the team by implementing structured Git workflows.
- **Increased mobile traffic engagement** by ensuring responsive and accessible design across devices.

## **PROJECTS**

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### **SONDER**

*Full-Stack Developer – Marketing Campaigns Management Platform*

Enhanced a **web-based marketing campaigns management platform** for an Australian client, focusing on performance, scalability, and reusability.

#### **Responsibilities:**

- Designed and implemented **GraphQL APIs**, managing **serverless backend code** with **AWS Lambda** for scalable and reliable services.
- Built **reusable frontend components** using React **class and functional components**, improving consistency and maintainability.
- Managed **cloud deployments** and infrastructure using **AWS CodeBuild, CodeCommit, CloudFormation, Cognito, and S3**.
- Implemented **unit tests with Jest** to ensure high code quality and minimize post-deployment issues.
- Collaborated with clients during **requirement gathering, Agile ceremonies, and live demos**, ensuring alignment with project goals and expectations.

#### **Technologies:**

React.js, Node.js, GraphQL, Serverless, Lambda, SQS, SES, WebSocket API, DynamoDB, S3, CodeBuild, CodeCommit, Cognito, CloudFormation, TypeScript, Jest

### **BUKFLIGHTS**

*Frontend & Backend Developer – Flight Booking Engine*

Worked on a travel technology platform, building scalable frontend interfaces with React.js/Vue.js/Next.js and backend services with Node.js, integrating APIs for real-time flight bookings, and optimizing databases for high performance and reliability.

### **RASAILK**

*Frontend & Backend Developer – E-commerce Grocery Platform*

Developed a full-stack e-commerce application connecting buyers, suppliers, and logistics providers, implementing responsive frontend interfaces, scalable backend services, and efficient database management to ensure smooth operations and real-time data updates.

## TECHNICAL EXPERTISE

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**Frontend:** React.js, Next.js (SSR, SEO-friendly), Vue.js, Nuxt.js, Tailwind CSS, SCSS, Radix UI, Shadcn/ui, React performance optimization (useMemo, useCallback, React Virtualized)

**Backend / APIs:** Node.js, GraphQL, Serverless (AWS Lambda), RESTful APIs

**Databases / Storage:** MongoDB, DynamoDB, Redis, AWS S3

**Cloud / DevOps:** AWS (Lambda, API Gateway, DynamoDB, S3, IAM, CloudFormation, CodeBuild, CodeCommit, Cognito), Docker, Bitbucket

**State Management / Data Fetching:** Redux, Zustand, React Query

**Testing / API Tools:** Jest, Unit Testing, Postman, Bruno

**Version Control:** Git, GitHub, Bitbucket

**Methodologies / Soft Skills:** Agile/Scrum (daily standups, sprint planning, backlog grooming, retrospectives), peer code reviews, mentoring juniors, collaborative teamwork, problem-solving, debugging, clean modular coding

## SKILLS

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ReactJS	NextJS
NodeJS	ExpressJS
MongoDB	DynamoDB
Git	GitHub
Docker	RadixUI
JavaScript	TypeScript
Shadcn/ui	Tailwind CSS
GraphQL	AWS S3

## EDUCATION

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**Master of information technology (MIT) Reading**

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

**Bachelor of information technology (BIT)**

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

**Higher Diploma in information technology (HDIT)**

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

**Diploma in information technology (DIT)**

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

**Diploma in Web Engineering (Pearson Assured)**

ESOFT METRO CAMPUS

**Diploma in PC Hardware and network Administration (Pearson Assured)**

ESOFT METRO CAMPUS

**Sat for G.C.E Advanced Level Examination 2013 (Maths Stream)**  
*ENGLISH MEDIUM MAHANAMA COLLEGE COLOMBO 03.*

**G.C.E Ordinary Level Examination 2010**  
*ENGLISH MEDIUM RAJASINGHE CENTRAL COLLEGE HANWELLA.*

## **REFERENCES**

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**Nuwan Wimalasena**, *Associate Technical Lead*, Eyepax IT Counselling  
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**Randika Hasheen**, *Associate Technical Lead*, ISA (Information Systems Associates)  
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