

Piumal Dhanawardhana

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WORK EXPERIENCE

TWC Innovations (Pvt)

April 2024 - Present

Software Engineer

TWC Innovations is a leading Sri Lankan tech startup delivering innovative software solutions and digital products, driving business efficiency across local and global markets since 2014.

- Built performant, data-heavy applications using **React, Next.js, and NestJS** with **TypeScript**, leveraging **TanStack Query and Zustand** to eliminate redundant re-fetches, keep state predictable, and deliver consistently fast, responsive user experiences.
- Leveraged AI coding assistants to accelerate feature delivery and rapidly ship MVPs, reducing typical development time and build cycles by ~40% and consistently meeting tight client deadlines and prototype features.
- Architected a schema driven theme and review engine for **ReviewCraze** - Sri Lanka's leading review platform, with drag-and-drop screen sequencing, QR-based feedback flows, and a state management layer handling end-to-end validation at scale, enabling businesses to design and deploy fully customizable no-code feedback forms.
- Designed and managed scalable MySQL schemas across multiple SaaS products using Prisma and Drizzle, optimizing query performance with caching to improve API response times and building custom migration workflows to handle complex data transitions and screen ordering logic with zero downtime and full data consistency.
- Implemented **CI/CD pipelines** using **GitHub Actions** and **Docker** - streamlining the build and release process to achieve fast, reliable, zero-downtime deployments to **DigitalOcean** production servers.

Intern Software Engineer

Jul. 2023 – Apr. 2024

- Built a cross platform React Native sales app for delivery teams, integrating route optimization and real-time progress tracking, reducing travel costs and improving daily target completion rates.
- Built pixel perfect, responsive web UIs from Figma designs using **React.js** and **Tailwind CSS** maintaining a consistent component library and integrating backend services for seamless, dynamic user experiences.
- Developed and maintained **NestJS REST APIs** across multiple SaaS applications, implementing cron jobs for automated scheduled tasks, structured error handling, request validation pipelines.
- Participate in brainstorming sessions with various teams to gather requirements and deliver solutions that align with business goals.
- Used Git and GitHub for version control, code reviews, and collaboration within Agile development cycles.

EDUCATION

University of Sri Jayewardenepura

2020 - 2024

Bachelor of Information and Communication Technology (Honors)

Colombo, Sri Lanka

Programming concepts, Software development, Networks, Machine Learning, Data warehousing, IT infrastructure, System design, Software architecture, QA, Data structures and algorithms, DB management, Principles of design, Project management.

ESOFT Metro Campus

2019 Oct. – 2020 July

Pearson Diploma in Software Engineering

Kurunegala, Sri Lanka

Foundation in software development and object-oriented programming (OOP) concepts, software development lifecycle.

PUBLICATIONS

Enhancing Lost and Found Systems with Multi-Modal Deep Learning

Intelligent object matching system combining NLP and computer vision, for accurate matching of objects across both text and images and outperforming traditional single modality approaches; published in Open Access Journal of Advances in Artificial Intelligence and Machine Learning (OAJ AIML), May 2025 edition.

LANGUAGES, SKILLS/TECHNOLOGIES & INTERESTS

- **Languages:** TypeScript, JavaScript, Python, C#
- **Skills/Technologies:** UI/UX Design, Node.js, React.js, React Native, Next.js, Astro.js, Tailwind CSS, GSAP, Zustand, TanStack Query, Strapi and Sanity CMS, T3 stack, Nest.js REST API, Docker, MySQL, Prisma, Drizzle, CI/CD
- **Interests:** DIY Home Projects, Weightlifting, Motor Sports, UI/UX and Product Design, AI and Machine Learning