RUKSHAN THARINDU

SOFTWARE ENGINEER

PERSONAL DETAILS

- Full Name - P.G.R.T.Rupasinghe
- Gender - Male
- Nationality - Sri Lankan
- Birth Year - 2000

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EDUCATION

1. O/L
2. A/L (Bio Science)
3. Higher national diploma in software engineering (NIBM)
4. BSc (Hons) Computing Science in Software Engineering (Following)

ACHIVEMENTS

Led a team to achieve 1st Runner-Up in the ESoft ThinkFest Hackathon 2025.

TECH STACK

Programming Languages:
Java, JavaScript, TypeScript, Python, PHP, C#, C++, Kotlin, HTML, CSS

Frameworks / Libraries:
React, Node.js, Express.js, PHP Laravel, Flutter, Tailwind CSS

Databases / Platforms:
MySQL, WordPress
Tools & Design: Figma, GitHub

LANGUAGES

- English (Professional proficiency)
- French (Native proficiency)

PROFILE

Highly motivated Full-Stack Developer with **2 years of professional experience** and recognized as **1st Runner-Up in the ESoft ThinkFest Hackathon**. Skilled in designing and delivering **enterprise-grade web applications** that combine robust backend APIs, modern frontend frameworks, and **interactive 3D visualization tools**. Proficient in **Laravel (PHP), Next.js + React + TypeScript**, and **Three.js/WebGL**, with hands-on experience building **responsive dashboards, 3D design workspaces,** and **scalable systems**. Experienced in **supporting team members, transferring knowledge**, while managing **server setup, hosting, and CI/CD pipelines**. Versatile across technologies with exposure to C#, IoT, and Python, demonstrating **adaptability** in **rapidly** evolving technical environments and a **passion for developing innovative, high-performing solutions**.

WORK EXPERIENCE

Breadcrumbs Innovations Pvt Ltd
2025 - PRESENT

Associate Software Engineer

- Developed enterprise web apps with backend APIs, modern frontend frameworks, and 3D visualization tools.
- Built KADI Panel Design Tool, a multi-tenant modular platform for designing and managing panels.
- Contributed to Divisarana Project for the Sri Lanka Hospital Council.
- Created interactive 3D workspaces using Three.js/WebGL.
- Mentored interns, conducted code reviews, and led project execution.
- Managed servers, hosting, and CI/CD pipelines.

Atmo Technologies
2024 - 2025

Web Developer

- Developed 10+ responsive websites, ensuring functionality and client satisfaction.
- Customized themes, integrated plugins, and optimized performance.
- Collaborated with teams for requirements and workflow efficiency.

Link Natural (Pvt) Ltd

IT Support / Developer
2024 - 2025

- Developed an internal Alarm System to improve operations.
- Designed and launched the company website, improving online presence.
- Contributed to software design, QA, and IT process improvements.

Flexycode (Pvt) Ltd
2023- 2024

Intern / Full-Stack Developer

- Gained hands-on experience with team collaboration, Git, and Agile practices.
- Developed Flexy HRIS with role-based access, employee data management, task tracking, and payroll using React, Tailwind CSS, Node.js, and MySQL.

SKILLS

Problem Solving, Decision Making, Innovation, Critical Thinking, Leadership, Mentoring & Supporting Team Members, Team Collaboration, Working Under Pressure, Creative Designing, CI/CD Pipelines, Automation, Cloud Hosting, Server Setup, Deployment, Offline-First Web Apps, PWA Implementation, IoT Integration, Communication, Customer Focus, Adaptability, Quick Learning, Time Management, Multi-tasking, Team Support, Knowledge Transfer, Passion

PROJECTS (ENTERPRICE)

KADI - technical modular panel designing platform

Three.js, Next.js (React + TypeScript), Laravel (PHP), Docker

- Built an interactive 3D Scene Editor with Three.js/WebGL, supporting real-time editing, textures, lighting, and camera controls.
- Integrated 3D editor into a responsive dashboard using Next.js, React, TypeScript, Tailwind CSS, and Redux Toolkit.
- Developed backend APIs with Laravel for scene data, asset management, authentication, and role-based access.
- Managed Dockerized deployments and CI/CD pipelines for reliable production environments.
- Skills: 3D & Graphics (Three.js/WebGL), Frontend (Next.js, React, TypeScript, Redux, Tailwind CSS), Backend (Laravel, REST APIs, MySQL/PostgreSQL), DevOps (Docker, CI/CD).

Divisarana – Hospital Services Management Platform (Sri Lanka Hospital Council)

Next.js, React, TypeScript, Tailwind CSS, Ant Design, Redux Toolkit, Laravel, MySQL/PostgreSQL, Docker, CI/CD, Stripe

- Developed a digital platform for hospital and donor management, connecting multiple hospitals with donors and charitable resources nationwide.
- Built responsive frontend with Next.js, React, TypeScript, Tailwind CSS, using Redux Toolkit for state management and real-time notifications.
- Created modules for donor management, beneficiary requests, inventory, and financial reporting.
- Developed backend APIs with Laravel, implementing role-based access, workflow automation, and secure donation processing.
- Managed Dockerized deployments and CI/CD pipelines for consistent and scalable production environments.
- Skills demonstrated: Frontend (Next.js, React, TypeScript, Tailwind CSS, Redux), Backend (Laravel, REST APIs, MySQL/PostgreSQL), DevOps (Docker, CI/CD), Healthcare & charity workflows.

AgroPlus – POS & Inventory System

Next.js, React, TypeScript, Tailwind CSS, PWA, Node.js, PostgreSQL, PouchDB/CouchDB, Docker, REST APIs

- Developed an offline-first digital platform for agricultural retail with real-time inventory, POS, and business analytics.
- Built responsive frontend with Next.js, React, TypeScript, Tailwind CSS, and offline sync via PouchDB/CouchDB.
- Created modules for inventory, sales, customer management, loyalty programs, HR/payroll, and barcode operations.
- Developed backend APIs with Node.js and PostgreSQL, including role-based access, workflow automation, and session authentication.
- Implemented offline sync with conflict resolution and dashboards for business intelligence.
- Managed Dockerized deployments and automated migrations.

TECHNICAL SKILLS & PROJECTS

- Frontend: React, Next.js, TypeScript, Tailwind CSS, Radix UI, shadcn/ui, Canvas API, Three.js
- Projects: Chronark.com (Portfolio), HRIS dashboards, Accounting & Medical Systems, Paint Shop Flow, Firebase Chat App, NextJS PWA QR Scanner, 3D CAD Editor
- Backend & Databases: Node.js, Flask, PHP, REST APIs, MySQL, Firebase Firestore
- Projects: XChat SDK, HRIS, CellAdmin App & API, TikTok Live Stream Dashboard, Train Booking System, POS System, Prescription Management
- Mobile & PWA: Kotlin, React Native, PWA, Camera/QR Integration, Offline-first apps
- Projects: Mental Health Assessment App, Room Automation, Y FM Radio Streaming, NextJS PWA QR Scanner
- AI & Machine Learning: Python, OpenCV, MediaPipe, NumPy, Scikit-Learn
- Projects: Hand Gesture Recognition System, Concrete Strength Prediction (ML regression)
- Real-time & Communication: WebRTC, P2P, Firebase Realtime
- Projects: Peer-to-Peer Cue System, Firebase Chat App, Peer-to-Peer Video Meetings
- Utilities & Tools: Chrome Extensions, Web Scraping (BeautifulSoup), Figma, ESLint, Git, CI/CD (Vercel/GitLab), NPM/PNPM
- Projects: Chrome Extensions (JSON Formatter, Task Manager, New Tab), Confetti.js Animation Library, LMS & Hospital Management System

REFFERENCE

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