

R. KRISHANTHAN

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EXECUTIVE SUMMARY

Dedicated Software Engineer with over a year of experience specializing in web and mobile solutions. Expertise spans the full development lifecycle, from designing highly responsive front-end components with React and Next.js to architecting efficient back-end services with Node.js. Committed to writing clean, maintainable code and solving complex technical challenges while delivering high-impact products that align with strategic business goals.

EXPERIENCE

Hack Kap: Full Stack Developer (Contract)

Nov 2025 - Feb 2026

- Developed a cloud-native cybersecurity training platform using React/Next.js and Node.js, delivering an MVP for hosting containerized CTF challenges.
- Dockerized frontend and backend services and created a Docker Compose environment to mirror the VPS production setup for local development and testing.
- Automated Kubernetes orchestration using GitHub Actions and K3s to automatically deploy namespaces, services, and infrastructure via YAML manifests.
- Optimized frontend performance and SEO by implementing a Server-First approach with Next.js Server Components, significantly reducing client-side bundle sizes.
- Hardened backend security by integrating Arcjet for bot detection, rate limiting, and DDoS protection to secure the API against automated attacks.
- Built a dynamic challenge management system allowing users to start/stop labs, with automated logic for validating completions and issuing certificates.
- Developed an Admin Dashboard to manage users, platform banners, and push notifications for real-time user communication.

Freelance Software Developer

Mar 2025 - Present

- Delivered 10+ full-stack web and mobile applications for clients, managing development from requirements gathering to deployment.
- Contributed to a micro job finding mobile application built with Flutter, implementing UI components and feature logic while collaborating with other developers.
- Automated cyber security challenge submission workflows using the Google Drive API, reducing manual handling and eliminating submission overload for 40+ users.
- Delivered SEO-optimized web solutions achieving top 3 Google search rankings for client keywords.

Independent Security Researcher

Apr 2023 - May 2024

- Discovered and responsibly disclosed an IDOR vulnerability within the Kajabi Email Services, securing customer data across over 100,000 businesses and 75 million end-users.
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PROJECTS

BusEase - Online Bus Ticket Booking Application

- Built a cross-platform transit application for 2 distinct user categories (Passengers and Operators) using Flutter and Clean Architecture principles, maintaining a 99.9% crash-free session rate tracked via Firebase Crashlytics.
- Integrated the PayHere mobile SDK to handle in-app ticket purchases securely, processing 100% of user transactions natively and eliminating the need for manual payment verification.
- Configured Firebase Cloud Messaging (FCM) to dispatch instant push notifications for booking confirmations and schedule alerts, ensuring zero-delay communication between operators and passengers.

LetsChat - Real-Time Messaging Mobile Application

- Developed a bi-directional communication system with persistent socket connections for low-latency text delivery and instant connectivity.
- Integrated Firebase Storage and push notifications to support story-based content & instant user engagement.

- Integrated low-latency bi-directional messaging using WebSockets, enabling instant text connectivity and live user presence updates.
- Achieved 60fps rendering for large message lists using Shopify FlashList and reduced load times with AsyncStorage local caching.

BeFit - Sports E-Commerce Mobile Platform

- Architected a real-time administrative dashboard with dynamic data visualizations to track critical business KPIs and sales performance.
- Engineered an automated PDF report generation engine with custom Canvas drawing and secure document sharing via File Provider.
- Implemented persistent session management and secure API communication for seamless user authentication and data integrity across sessions.

Edutube - Video Playlist Based Course Creation & Tracking System

- Built a learning platform that converts YouTube playlists into structured courses, supporting course creation, lesson tracking, and completion of certificates.
- Added daily streaks and progress heatmaps to encourage consistent learning and improve user retention.

SKILLS

Programming Languages: TypeScript, JavaScript, Java, Dart, PHP

Databases & ORMS: MySQL, MongoDB, PostgreSQL, SQLite, Firebase Firestore, Hibernate, Prisma

Technologies: React Native, Expo, Next.js, React.js, Flutter, Tailwind CSS, Zustand, Node.js, Express.js, Android (java), Jakarta EE

DevOps & Tools: Docker, Kubernetes, Github Actions, Linux, Git

EDUCATION

Bachelor of Engineering in Software Engineering

IIC University of Technology

April 2026

Phnom Penh, Cambodia