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*

- Architected and deployed 10+ custom web and mobile applications for diverse clients, managing the full software development lifecycle (SDLC) from initial requirements gathering to final production hosting.
- Engineered key features and responsive UI components for a micro-job search mobile app using Flutter, collaborating in a multi-developer environment to implement business logic and state management.
- Streamlined cybersecurity challenge submission workflows by integrating the Google Drive API, automating document management and eliminating manual file processing overhead for 40+ active users.
- Developed SEO-optimized, performant web applications with tailored site architectures and metadata strategies, consistently achieving Top 3 Google search rankings for client targeted 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.

PROJECTS

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

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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.
- Integrated push notification systems to deliver real-time promotional content and user engagement alerts via event-driven messaging.

Resume2apply - Full-Stack Resume & Job Application Platform

- Architected a full-stack job application platform using Next.js (App Router), TypeScript, and React 19, implementing protected server-side API routes and custom multi-provider authentication (Email/Password, Google OAuth, and Outlook OAuth).
- Built an interactive job-tracking and analytics workflow featuring a dynamic Kanban board and target company management, leveraging Zustand for client-side state management and Framer Motion for animated UI transitions.
- Engineered custom resume and cover letter generation engines using @react-pdf/renderer to dynamically render and export ATS-optimized PDFs directly from structured user data stored in MongoDB/Mongoose.
- Implemented automated email outreach logic by integrating the Resend API alongside OAuth-based Gmail and Outlook sending workflows for direct cover letter dispatch and follow-ups.

LinkedOut - LinkedIn Productivity Blocker for Developers

- Engineered a custom Chrome extension using Manifest V3 to reduce social media distractions by gating access to LinkedIn behind interactive coding challenges.
- Implemented real-time URL interception and DOM manipulation to enforce mandatory LeetCode problem solving before granting web access.
- Designed a seamless local storage state management pipeline using the chrome.storage API to persist daily streak data, block timers, and user access permissions.
- Built a responsive, distraction-free popup UI with custom settings, allowing users to customize blocking parameters and view productivity metrics.

SKILLS

Programming Languages: Java, TypeScript, JavaScript, PHP
Databases & ORMS: MySQL, MongoDB, Hibernate, PostgreSQL, SQLite, Firebase Firestore, Prisma
Technologies: Next.js, React.js, React Native, Expo, Tailwind CSS, Bootstrap, Zustand, Node.js, Express.js, Android (java), Jakarta EE, SpringBoot, Prompt Engineering, AI-Assisted Development
DevOps & Tools: Docker, Kubernetes, GitHub Actions, Linux, Git, AWS (Basic)

EDUCATION

IIC University of Technology **April 2026**
Phnom Penh, Cambodia
Bachelor of Engineering in Software Engeering
Affiliated Institution: Java Institute for Advanced Technology, Sri Lanka