

Roshan Kandel

SOFTWARE ENGINEER · WEB & ANDROID DEVELOPER

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Computer Programming graduate with a strong foundation in object-oriented design, data structures, and full-stack development. Solo-built and shipped a production-grade Android application spanning a custom PDF engine, on-device OCR, and cloud backup, alongside a range of custom-built websites and web tools. Experienced in campus-scale network and systems administration. Seeking an entry-level software developer role to apply proven technical delivery and keep building deep engineering expertise.

TECHNICAL SKILLS

Languages	C# / .NET, JavaScript (ES6+), Kotlin, HTML5 / CSS3, SQL
Mobile & Frameworks	Android SDK, AndroidX / Jetpack, Google ML Kit (OCR, Scanner, Translation)
Systems & Tools	OOP, SDLC, Network Protocols (TCP/IP, HTTP, DNS), Git & GitHub, Windows & Linux OS

EXPERIENCE

IT Support Technician

ISMT College · Chitwan, Nepal

Feb 2021 – Sep 2022

- Sole on-site technician responsible for hardware architecture, physical networks, and systems deployment across the entire campus, supporting 150+ lab workstations.
- Configured, maintained, and hardened campus routers and Wi-Fi access points, securing student authentication network-wide.
- Deployed and maintained SDK compilers, database servers, and IDEs (VS Code, Visual Studio) across terminal labs to keep the software engineering curriculum running without interruption.
- Provided hands-on systems debugging support to students during high-stakes lab exams and research sessions.

PROJECT — COMPLETESCAN (ANDROID)

CompleteScan — Document Workspace App

Solo Developer

A full document workspace for Android — scan, read, edit, convert, protect and back up, all from one app.

5 OCR scripts on-device 12+ file formats supported 3 cloud backup providers 100% private by default

- Designed and built the entire feature set solo: a native Kotlin/Android codebase with a custom PDF engine, on-device OCR, real certificate-based signing, and cloud backup — no paid document SDK or backend required.
- Built on-device text recognition across 5 scripts (Latin, Devanagari, Chinese, Japanese, Korean) with fully searchable, selectable-text PDF export.
- Implemented full document editing: merge, split, reorder, rotate, crop, extract pages, AcroForm filling, watermarks, and ink signatures with real KeyChain-certificate PDF signing (RSA/EC CMS).
- Shipped AES-256 password protection, true redaction, and one-tap backup to Google Drive, Dropbox, and OneDrive — all documents remain in private on-device storage by default.

Tech: Kotlin, Android SDK, Google ML Kit, AndroidX / Jetpack, Storage Access Framework, AES-256

ADDITIONAL PROJECTS

Personal Portfolio Website

Solo Developer

- Designed and built a fully custom, animation-driven portfolio site from scratch — React, Vite, Tailwind CSS, and Framer Motion — with a dual light/dark theme system and scroll-based interaction design.

Learning Management System (LMS)

Academic Project · ISMT College

- Built a full learning management system with role-based access for students and instructors, covering course enrollment, assignment submission and grading, and real-time announcements.

Tech: Next.js, Supabase (PostgreSQL, free tier), Prisma ORM, Tailwind CSS, Vercel

Fitness Tracking Application (Web + Android)

Academic Project · Niagara College

- Designed and built a cross-platform fitness tracking app with a web dashboard and a native Android app, sharing one real-time backend for workout logging, calorie tracking, and progress visualization.

Tech: React, Kotlin (Android), Firebase (Firestore & Authentication, free tier), Chart.js

EDUCATION

Computer Programming — Post-Graduate Program

Niagara College, Toronto, ON

May 2023 – Dec 2024

BTEC in Software Engineering

ISMT College, Chitwan, Nepal

Feb 2020 – Jul 2022