



RIDWAN SIHARA

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A multidisciplinary developer with hands-on experience in **Android app development, web development, game development, and engineering tools** such as **ANSYS, MATLAB, and AutoCAD**.

Proficient in **data gathering, database management, Firebase integration, and version control with GitHub**.

Focused on building efficient, scalable, and user-centered digital solutions by combining engineering precision with modern software practices.

EXPERIENCE

ANDROID APP DEVELOPMENT - "SMART TRACKER APP"

Developed a real-time location tracking app integrated with Firebase Realtime Database and event-based notifications.

Tech stack: Kotlin, Firebase, Google Maps API

Result: Reduced tracking errors by 30%

WEB DEVELOPMENT - "COMPANY PORTFOLIO WEBSITE"

Built a responsive web platform using React for the frontend and Node.js for backend API services connected to MySQL.

Features: Admin dashboard, login system, RESTful API

Impact: Increased user engagement by 45%

GAME DEVELOPMENT - "MATH ADVENTURE GAME"

Designed and programmed an interactive educational game using Roblox Studio and Unity.

Features: Level-based math challenges, leaderboard system

Achievement: 1,000+ active players in the first week of release

ENGINEERING SIMULATION - ANSYS & MATLAB PROJECT

Performed mechanical deformation and heat transfer simulations using ANSYS, and modeled dynamic systems in MATLAB.

EDUCATION

JUNE 2010

SENIOR HIGH SCHOOL IN SAINS 2007 - 2010

SKILLS

SOFTWARE DEVELOPMENT : Android (Java, Kotlin, XML) Web (HTML, CSS, JavaScript, React, Node.js) Game Development (Unity, Roblox Studio, Blender, C#).

ENGINEERING & ANALYSIS : ANSYS (mechanical & thermal simulations) , MATLAB (numerical analysis, system modeling, data visualization) , AutoCAD (2D & 3D design, drafting, and assembly)

DATABASE & CLOUD : Firebase (Authentication, Firestore, Realtime DB, Hosting) , MySQL / PostgreSQL

VERSION CONTROL & COLLABORATION : Git & GitHub (branching, pull requests, CI/CD)

DATA HANDLING : Data gathering, preprocessing, and visualization (Python, MATLAB, Excel)

SOFT SKILLS : Problem Solving, Team Collaboration, Technical Documentation, Project Management