


# SAFAL SHARMA

Cross-platform mobile and web-focused software engineer with 3+ years building apps and full-stack products for real users. Shipped a Google Play app with 150K+ installs, owned enterprise SaaS workflows, and built BLE-enabled control apps for field equipment, with C embedded experience as a practical edge. Based in Japan.

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## SKILLS

### </> PROGRAMMING LANGUAGES

– Dart, TypeScript, JavaScript, Python, Kotlin, C, C++

### 🔧 FRAMEWORKS & LIBRARIES

– Flutter, React Native, Next.js, React, Laravel, Tailwind CSS

### 🔗 BACKEND, DATA & APIS

– SQL, REST APIs, Firebase, JWT Auth, Docker

### 🔧 HARDWARE & AI SYSTEMS

– BLE, UART/CAN, ESP32, Raspberry Pi, Genkit, LLM workflows

## EDUCATION

**2019 – 2022**

### University of Northampton

BSc Computing (Software Engineering)

*Achieved First Class Honours*

**2017 – 2019**

### Himalayan Whitehouse College

High School (Physics, Chemistry, Math)

## LANGUAGES

- **Nepali** – Native
- **English** – Business
- **Japanese** – Conversational
- **Hindi** – Conversational

## WORK EXPERIENCE

### Flutter Mobile & Embedded Systems Developer

ATEX Co., Ltd. – Jan 2024 – Present

- Build and architect Flutter mobile applications used by 1,000+ active users to control and monitor self-driving commercial lawn mowers, improving BLE reliability for remote operation.
- Independently built a Flutter-based VT100 Bluetooth serial terminal emulator for internal diagnostics, giving engineers wireless access to mower system terminals without opening the case or attaching debug wires; saves about 10 minutes per setup and is well received by the team.
- Handle occasional C/C++ hardware communication tasks across UART/CAN, sensors, and mower-control integrations when required.
- Contributed to two filed, pending patent applications for camera-based AI safety systems with research universities, integrating real-time obstacle detection for Senior Cars.

### Software Engineer

Rambler Technologies – Aug 2022 – Dec 2023

- Served as sole frontend engineer for a US mortgage loan management platform supporting 6 role groups, 15+ employees, and 100+ daily client loan records using Next.js.
- Designed and shipped a native Android AR application enabling real-time virtual wallpaper placement and visualization for a premium consumer brand.
- Architected the public website and content management portal for the School of Shelter and Environment ([sse.org.np](https://sse.org.np)), deploying secure JWT-based authentication.

### Frontend / Mobile Developer

Kurma Tech – Sep 2021 – Dec 2021

- Contributed to a React Native food delivery app using Redux and Mapbox, building product discovery, ordering, and delivery-location flows with a dedicated UI/UX team.
- Delivered frontend features for several client-facing web applications, translating designs and API requirements into practical production screens.

## PERSONAL PROJECTS

### Alt Games Portal – Flutter, Firebase, Agentic AI

**2018 – Present**

- Published gaming portal with **150K+ Google Play installs**, migrated from native Android (Java) to Flutter.
- Built a Genkit-powered cloud AI pipeline that uses LLMs and SVG generation to deliver playable 2D games.

### Brobot Companion Lab – Electron, Three.js, Vite, Ollama

**2026**

- Electron desktop wrapper rendering a Three.js interactive robot face animated by local Ollama structured actions.

### Live Language Translation – Python, FastAPI, WebSockets

**2026**

- Real-time Japanese-to-English speech translation system with WebSocket streaming and Whisper transcription.