

Hridaya Prajapati

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Experience

- Lead Developer**, PixelOS (pixelos.net), Remote 2022 – Present
- Architected and maintained **PixelOS**, an open-source custom Android operating system powering over **2.8 million downloads** across an active global community of **11k+ members**.
 - Maintained **platform-wide security patch integration**, upstream source tracking, and forward-ported operating system features across major Android version upgrades to ensure device stability.
 - Engineered dynamic on-the-fly overlay updates and redesigned the **PixelOS Updater** system application, streamlining seamless **OTA update delivery**.
 - Built a unified **design system** across official web properties and implemented **static site generation**, maximizing client-side performance, accessibility, and search visibility.
- Software Engineer Intern**, Codniv Innovation (codniv.com), On-Site May 2026 – Aug 2026
- Engineered modular backend services following a **layered architecture** pattern, implementing relational entity modeling, schema migrations, and structured database transactions.
 - Developed secure API endpoints with centralized request validation, session middleware, and optimized backend services using **multi-stage containerization** for local runtime efficiency.
- Software Engineer Intern**, CityTech (citytech.global), On-Site Feb 2026 – Apr 2026
- Developed core UI features and modularized legacy components adhering to **Clean Architecture** and MVVM, improving codebase testability, scalability, and maintainability.
 - Refactored legacy UI bindings across core modules, eliminating runtime crashes and boosting **type safety**.
 - Streamlined **EMV transaction workflows** and integrated proprietary POS hardware SDKs with Android applications, eliminating terminal setup inconsistencies for merchants.
- Software Engineer Intern**, Samey AI (samey.ai), Remote Jul 2025 – Oct 2025
- Scaled the MVP into a production-ready platform by implementing end-to-end **i18n** and **a11y** support across all core application workflows and components.
 - Standardized a reusable **component design system** across web applications and built a **progressive web application** for mobile responsiveness and offline caching.
 - Engineered **real-time state synchronization**, maintaining data consistency across concurrent user sessions.
 - Integrated secure **self-service authentication flows** and instrumented event pipelines for product telemetry.
- Frontend Developer Intern**, Sita Software, On-Site Feb 2025 – Jun 2025
- Designed and developed the company's responsive portfolio website, implementing **fluid animations**, responsive design layouts, performance optimizations, and search indexing.

Projects

- KubeNexus**  : Engineered a native Android Kubernetes app using **Jetpack Compose**, **Coroutines**, and **Hilt**. Integrated a **Go** core engine and an embedded **Ghostty terminal** via NDK/JNI bindings for cluster operations.
Tools used: Kotlin, Jetpack Compose, Hilt, Room, NDK/JNI, Go, Kubernetes
- ScrapyChat**  : Built an AI-powered RAG system to crawl user-defined websites, process content, and enable contextual Q&A. Implemented an **ElysiaJS** auth service and **FastAPI** backend orchestrating **Ollama** LLMs.
Tools used: Next.js, Bun, ElysiaJS, FastAPI, Python, Ollama, Tailwind CSS
- GitOps Homelab**: Self-hosted a **Kubernetes** cluster on a Dell OptiPlex, managed declaratively via the **ArgoCD** app-of-apps pattern. Configured automated CI/CD pipelines to build images, push to GHCR, and auto-sync deployments.
Tools used: Kubernetes, ArgoCD, Helm, Kustomize, Traefik, Docker, GitHub Actions
- Legislative Summarization**  : Built an interactive legal text summarization interface supporting extractive and abstractive NLP modes. Integrated real-time backend processing APIs and secure JWT middleware.
Tools used: Next.js, Bun, TypeScript, Tailwind CSS, Axios

Technologies

Languages: Kotlin, Java, TypeScript, JavaScript, Python, Go, SQL, C, Bash
Frameworks: Android SDK, Jetpack Compose, AOSP, Hilt, Room, Coroutines, Next.js, React, FastAPI, Express.js
Databases: PostgreSQL, MySQL, Redis, SQLite
Tools: Docker, Kubernetes, ArgoCD, Helm, Git, GitHub Actions, Linux/SSH, Postman

Education

Aadim National College Kathmandu, Bachelor of Computer Application (BCA) 2022 – Present
Khwopa Higher Secondary School Bhaktapur, XII 2019 – 2021