



SACHINTHA ANTANY

Software Engineer | Flutter & Full-Stack Developer | AI Agents & Cloud Integration

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ABOUT ME

Results-driven Software Engineer with 6+ years in full-cycle mobile and full-stack development, including 3+ years specializing in Flutter with Clean Architecture and the Bloc Pattern. Increasingly focused on AI-powered products, building agentic experiences with LLMs (Gemini, Groq/LLaMA, Claude), the Vercel AI SDK, and the Model Context Protocol (MCP). Proven track record delivering enterprise-grade digital transformation and workflow automation across finance, insurance, manufacturing, and distribution. Google Certified Professional Cloud Architect.

TECH STACK & TOOLS

Languages: Dart, TypeScript, JavaScript, Java, Python, SQL

Mobile: Flutter (Android & iOS), Clean Architecture, Bloc Pattern, Drift SQLite, Offline-first sync

Web & Backend: Next.js, React, Angular, Spring Boot 3, Node.js / Express, Flask, Starlette / Uvicorn

AI & Agents: LLMs (Gemini, Groq/LLaMA, Claude), Vercel AI SDK, MCP, Vertex AI, SAP B1 Service Layer / OData

Cloud & DevOps: GCP, Cloud Run, Cloud Build, Docker, Firebase, Supabase, Vercel

Automation & Enterprise: AppSheet, Apps Script, SAP HANA / SAP B1, Cloud SQL, Redis, OAuth 2.0 / JWT

Dev Tools: Git, Bitbucket, Figma, VS Code, Android Studio

PROFESSIONAL EXPERIENCE

2019 – Present (6+ Years)

SOFTWARE ENGINEER | FINETECH CONSULTANCY PVT LTD – SRI LANKA

Flutter App Development

- Architected & launched Timespot — GPS attendance, task & sub-task tracking, and leave/WFH approval workflows (live on Play & App Store).
- Built Litro Gas SPO Hub & Sales POS (offline-first Drift SQLite sync) and DocIt, an OCR-powered document management system.

AI & Full-Stack Product Development

- Independently designed and built a custom MCP server bridging SAP Business One with Gemini Enterprise — 75 read-only tools across 10 business domains enabling autonomous 3-way PO matching, intelligent document generation, and real-time financial analytics via natural language. No native SAP–Gemini integration exists; this was a solo R&D initiative.
- Built Sela, a trilingual (EN/SI/TA) AI shopping concierge for the Kapruka Agent Challenge on Next.js 16, Vercel AI SDK, MCP and a multi-model fallback brain (Gemini → Groq → Claude).
- Created an AppSheet Workflow Automation pipeline over a reverse-engineered editor API, letting an AI agent generate full enterprise apps in seconds.

Cloud Workflow Automation

- Digitized workflows for clients (Dilmah, DFCC, SANASA, Commercial Bank) using AppSheet & Apps Script with SAP B1 (HANA/SQL), achieving up to 80% paper reduction.

Tech Leadership & Collaboration

- Led technical design and cross-team integrations, and mentored developers on architecture best practices and cloud workflows.

EDUCATION

2008 – 2016

ADVANCED LEVEL

St.Peter's College Colombo 04

2017 – 2021

BSC (HONS) IN INFORMATION TECHNOLOGY – SOFTWARE ENGINEERING

Sri Lanka Institute of Information Technology (SLIIT)

PROJECT HIGHLIGHTS

SAP B1 MCP Server for Gemini Enterprise – Custom Model Context Protocol server bridging SAP Business One with Gemini Enterprise (solo R&D — no native integration exists). 75 read-only MCP tools across Procurement, Sales, Finance, Inventory, Service, and Metadata domains. Enables autonomous 3-way PO matching, multimodal PR/PV generation from vendor invoice PDFs, dynamic cash flow analysis, and forensic inventory variance detection via natural language. Python, Streamable HTTP, OData, Cloud Run, OAuth 2.0 + PKCE, SAP HANA.

Sela – Trilingual AI Shopping Concierge – Full-screen conversational commerce agent for the Kapruka Agent Challenge 2026, taking a shopper from intent to paid order entirely in chat across English, Sinhala & Tamil with voice and handwriting input. Built on Next.js 16, Vercel AI SDK v6 and MCP, with generative UI and a multi-model fallback brain (Gemini → Groq → Claude).

AppSheet Workflow Automation (Reverse-Engineered Editor API) – Cracked AppSheet's private editor API via a Chrome MV3 extension + Node.js bridge relay, letting an AI agent drive real-time app builds — generating a full enterprise DLP app (36 slices, 35 views, 23 actions, 14 bots) from one idempotent Python script. Fast-forwards workflow delivery ~4× (a ~20-day build now ships in ~5).

DLP Rule Workflow – Commercial Bank of Sri Lanka – Enterprise Data Loss Prevention rule lifecycle management with three approval workflows, 8+ sequential stages, five role-based dashboards, a full audit trail and automated notifications. Generated via the AppSheet Workflow Automation pipeline.

Hive Trendz – AI Social Media Automation – Autonomous news-to-post pipeline using LLaMA 3.3 70B (Groq API), a Flask + APScheduler backend on Railway, and a Flutter app with on-device image compositing and FFmpeg video editing. Posts to Facebook & Instagram fully autonomously.

Flutter Feature Generator – Production-grade Dart CLI that scaffolds a complete full-stack feature (~25 files) in one command: Clean Architecture + BLoC + Drift SQLite + offline-first sync + Java Spring Boot 3 REST backend.

Litro Gas SPO Hub & Sales POS – Combined Flutter app: SPO Hub for dealer visit management; Sales POS for fully offline island-wide gas distribution recording with Drift SQLite background sync (Clean Architecture + BLoC).

Enterprise Dealer Stock Recommendation System – Intelligent stock recommendation for Litro Gas distribution network (Cloud-based Solution)

DocIt DMS – OCR-based Document Search & Workflow with Flutter Clean Architecture (04/2024–Present)

RhythmCore Event System – Full-stack event management & ticketing with QR verification (Freelance Project)

Timespot App – Attendance & Project Management App on Play Store & App Store (09/2023–Present)

Ceylon Explorer – Modular Travel Booking App with Clean Architecture (03/2024–05/2024)

SANASA Life Insurance – SAP HANA Integration & Workflow Automation (06/2023–09/2023)

Dilmah Tea NPD – Product Development Workflow Automation (06/2022–02/2023)

BNS Music OPMS – Organisational Project Management System replacing manual job sheets with a multi-level digital approval workflow (Production → Finance → Director) and budgeted vs actual cost tracking. Built on AppSheet, Apps Script & Cloud SQL.

Sarvodaya Finance – HRIS & Workflow Automation System (Enterprise Solution)

CERTIFICATIONS

GOOGLE PROFESSIONAL CLOUD ARCHITECT · ASSOCIATE CLOUD ENGINEER

SERVERLESS APPS ON CLOUD RUN · SEARCH & RECOMMENDATIONS WITH AI APPLICATIONS (VERTEX AI) – GOOGLE CLOUD

13 VERIFIED GOOGLE CLOUD BADGES ON CREDLY

PUBLICATION

"Smart Urban Parking Solution in Sri Lanka (Pay-As-You-Park)" – International Journal of Computer Applications

REFERENCES

Mr. Nirushka Samarasinghe

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Mr. Thilina Prabashwara Wickramarachchi

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