

SONU KUMAR

Full Stack Flutter Engineer

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Professional Summary

Full Stack Flutter Engineer with 2+ years of experience building scalable Android/iOS applications and backend systems using Flutter and Node.js. Experienced in Clean Architecture, SOLID principles, Firebase ecosystem, REST APIs, AWS deployment, and AI-powered applications. Built and shipped 10+ production applications across fintech, healthcare, ERP, and enterprise domains.

Technical Skills

Languages: Dart, TypeScript, JavaScript, SQL
Frontend: Flutter (Android/iOS/Web), Bloc, Cubit, Riverpod, Provider
Backend: Node.js, Express.js, NestJS, REST APIs, Prisma, Firebase, Supabase, FastAPI (basic)
Databases: PostgreSQL, Redis, SQLite (Drift), Isar, Hive
Core Strengths: Offline-first Architecture, Clean Architecture, SOLID Principles, MVC, MVVM, OOP
Cloud & DevOps: AWS (EC2, S3, SES), Docker, CI/CD (GitHub Actions, Fastlane), Nginx
AI & LLM Integration: LangChain, RAG, Pinecone, OpenAI APIs

Professional Experience

Full Stack Flutter Engineer - SDE2

Aug 2025 – Present

HACKERKERNEL (Compile Technology Pvt Ltd)

Bhopal, India

- Developed backend APIs and integrated AI-driven features using **OpenAI APIs** for enterprise workflows.
- Designed and built backend services for a Private Jet Cabin Control System using **Node.js** and **MySQL**, ensuring reliable device communication and achieving 99.9% uptime.
- **Configured and maintained AWS Infrastructure (EC2, S3, SES)**, writing automation scripts for secure deployments.
- Improved API response time by 40% by **optimizing SQL queries** and introducing **Redis-based caching** for frequently accessed data.

Flutter Developer - SDE1

Apr 2024 – Aug 2025

HACKERKERNEL (Compile Technology Pvt Ltd)

Bhopal, India

- Published and maintained applications on Google Play Store and Apple App Store, handling release management and production deployments.
- Built and deployed multiple production applications including fintech and real-time systems.
- **Refactored codebase** for 60% performance boost in fintech apps using widget decomposition and caching.
- **Published universal_file_viewer** on pub.dev, actively maintaining the repo for a community of 800+ devs.
- **Built CI/CD pipelines** using GitHub Actions and Fastlane, automating testing and store deployment workflows.

Key Projects

Wally-Co - Intelligent Construction ERP | Flutter, Node.js, LangChain, RAG, Pinecone, AWS | Web App 2025

- Built an AI assistant using **LangChain** and **Pinecone** to retrieve and summarize construction documents for field teams.
- Built a **Konva-based** drawing engine enabling blueprint annotations and improving field **team collaboration**.
- **Implemented** secure **RBAC** and automated work-report generation via fine-tuned **LLM prompts**.

InspectSync - Offline-First Sync Engine | Flutter, Node.js, Prisma, Redis, AWS S3 | GitHub 2026

- Implemented an **offline-first sync system** using a **push-pull** strategy with **LWW** conflict resolution to handle **concurrent updates across multiple users in low-connectivity** environments, ensuring data consistency.
- **Developed** a secure media strategy using AWS S3 Presigning for zero-connectivity field environments.

Flutter SurveyJS - Native Rendering Engine | Flutter, JavaScriptCore, JIT, flutter_js 2026

- **Developed** a comprehensive native engine to render complex SurveyJS definitions with sub-100ms latency.
- Integrated **JavaScriptCore** to execute dynamic SurveyJS logic inside Flutter for real-time validation and rendering.

TheInspectAI - Automated AI Code Review | NPM, Node.js, AWS Lambda, OpenAI | NPM 2025

- **Built and published** an NPM package for automated Flutter audits, integrating directly with GitHub webhooks.

Education

Master of Computer Applications (MCA) – CGPA: 7.8

Aug 2022 – Aug 2024

Lovely Professional University

Punjab, India

Bachelor of Computer Applications (BCA) – CGPA: 8.5

Aug 2019 – Jul 2022

Gossner College, Ranchi University

Ranchi, India

Achievements & Certifications

Open Source: Published **universal_file_viewer** and **dynamic_icon_changer** on pub.dev.

Recognitions: **First Runner-Up** Innovatrix Hackathon. Contributed to major Flutter open-source repos.

Certifications: HackerRank Software Engineering (Advanced), FreeCodeCamp Machine Learning with Python.