BIBEK KUMAR THAGUNNA

Systems Engineer & Agentic AI Architect

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Agentic AI Systems Architect with a track record of shipping production-grade full-stack applications. Specializes in building autonomous software systems by orchestrating the best-fit technologies for each problem domain. Founder of Velayon, delivering scalable enterprise solutions across diverse industry verticals.

EXPERIENCE

Velayon
Jan 2024 – Present

Founder & Lead Systems Engineer

- Architected **Attendify**, a production-ready SaaS for attendance tracking using Flutter and Firebase. Engineered location-fencing and QR validation protocols capable of handling 10k+ concurrent requests.
- Developed a comprehensive **Hotel Management System** (ERP) with multi-tenant architecture. Implemented complex billing logic, RBAC, and regulatory compliance features ready for market deployment.
- Engineered a high-performance **Face Recognition Dashboard** achieving 30fps live processing using Python and OpenCV. Optimized resource allocation for real-time edge deployment.
- Implemented **Agentic AI workflows** to accelerate development velocity by 10x, enabling single-engineer delivery of complex, full-stack ecosystems.

TECHNICAL PROJECTS

Automated Expense Tracker
Flutter • Hive • Local ML

Built a financial tracking tool that parses transaction notifications locally on-device. Achieved 95% parsing accuracy in testing with zero server dependency.

Velayon Ecosystem (Monorepo)
Next.js • Tailwind • Vercel

Designed a scalable multi-tenant frontend architecture hosting portfolio, company site, and SaaS product demos from a single codebase.

TECHNICAL SKILLS

Languages	TypeScript, Dart, Python, SQL
Frontend	Next.js, Flutter, React, Tailwind CSS, System Architecture
Backend & AI	Node.js, Postgres, Firebase, LLM Orchestration, LangChain
Tools	Git, Docker, Linux System Administration, Vercel

EDUCATION

Thapar Institute of Engineering and Technology
Patiala, India

B.E. Computer Science Engineering

2027