

Sahil

AI-Native Full Stack Architect (Agentic Workflows)

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SUMMARY

High-velocity **Agent Architect** and Full Stack Developer utilizing **Google Antigravity** and **Claude 4.5 Opus** to orchestrate autonomous development workflows. Expert in managing multi-agent systems (Mission Control) to build production-grade e-commerce and forensic applications 10x faster than traditional standards. Pioneering the shift from "writing code" to "piloting agents" for complex, full-stack deployment.

TECHNICAL ARSENAL

Agentic IDEs	Google Antigravity (Agent Manager), Cursor (Composer), Lovable
Frontier Models	Claude 4.5 Opus (Thinking), Claude 4.5 Sonnet, Gemini 3 Pro
Orchestration	Multi-Agent Delegation, JSON Schema Enforcement, RAG Pipelines, Web Speech API
Core Stack	React, Tailwind CSS, Node.js, Supabase, PostgreSQL, Python (FastAPI), Three.js

SELECTED PROJECTS

AstroQuest: Spatial AI & Voice-First Explorer Gemini Pro + Three.js

- Spatial Intelligence:** Developed an immersive, infinite 3D Solar System explorer using Three.js and WebGL, serving as a spatial anchor for AI-driven educational content.
- Multimodal Orchestration:** Engineered a robust AI handler using **Gemini API** and **JSON Schemas**, enforcing strictly structured output to guarantee reliable, multi-modal responses without hallucination.
- Voice-to-Action:** Implemented a full hands-free navigation system using the Web Speech API, demonstrating advanced capability in conversational AI interfaces.

F.A.C.E.S. (Forensic Artificial Composite Engine System)

- Architecture:** Designed a forensic tool reducing suspect ID time from 8 hours to 5 minutes (99% efficiency gain) using Generative AI.
- Deep Tech:** Built a "surgical" image refinement pipeline using **Segment Anything Model (SAM)** and Diffusion Models to edit specific facial features while preserving core identity.
- Vector Search:** Integrated FAISS/ArcFace principles for instant suspect database matching.

Full-Stack E-Commerce Platform (Artisanal Crochet) Antigravity + Opus 4.5

- **Agent Orchestration:** Utilized Antigravity's **Agent Manager** to spawn parallel agents: one for backend SQL schema generation (Supabase) and another for frontend component architecture.
- **Business Logic:** Prompted **Claude 4.5 Opus** to architect a dynamic inventory system that automatically handles cart logic and Stripe payment integration without manual boilerplate.

Generative Interior Design Portfolio Gemini 3 + Lovable

- **Generative UI:** Leveraged **Gemini 3 Pro** to generate "adaptive layouts" that change based on the artistic style of the interior photos uploaded.
- **Speed-to-Market:** Moved from concept to deployed client site in **< 1 Day**, utilizing AI for 90% of the CSS/Animation work.

EXPERIENCE

Freelance AI Pilot / Agent Architect

Jun 2023 – Present

Remote

- **Agent-First Development:** Transitioned workflow to **Google Antigravity**, managing autonomous agents to handle testing, linting, and refactoring asynchronously.
- **10x Velocity:** Developed and deployed end-to-end Generative AI web applications using low-code platforms (Lovable.dev) and React, accelerating prototyping timelines by 40%.
- **AI Backend:** Architected scalable backend solutions using Supabase to manage secure user authentication and real-time data storage.

EDUCATION

B.Tech in Computer Science and Engineering

2023 – 2027

Rajiv Gandhi Proudyogiki Vishwavidyalaya