

Sudhanshu Pandit

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EXPERIENCE

Layerpath

Founding AI Engineer

Nov 2025 – Present

Remote, San Francisco

- Architected and shipped **Path AI**, a voice-first agentic system with a 7-stage FSM (BANT + Four Forces), processing 1,500+ calls/month at 85%+ accuracy and 75% lower cost than human SDRs; built on LiveKit and Pipecat for low-latency production voice.
- Designed and shipped **Magic Editor** solo end-to-end: an agentic AI editing assistant for interactive product demos with a multi-tier LLM engine (Gemini, OpenAI) emitting JSON Schema/Zod-validated action proposals, vision-grounded copy rewrites, and AI voiceover, wired through a propose -> confirm -> apply pipeline with BrandMemory-aware generation, intent routing, and edit attribution.
- Built **BrandMemory** end-to-end, solo (Next.js, TypeScript, Prisma, PostgreSQL): an AI brand intelligence pipeline that extracts a company's voice, tone, and guidelines from its web presence, consumed by Magic Editor to ground its generation in each brand.

BusinessRoom

Software Engineer 1

July 2025 – Oct 2025

Remote, Bangalore

- Reduced page load times by 80% (7s to 1.5s) through backend query optimization, caching, and frontend code-splitting, directly improving user engagement and retention.
- Architected and deployed scalable microservices on Docker, AWS ECS, and CI/CD pipelines, cutting release cycles by 30% while improving reliability.
- Implemented AWS monitoring (CloudWatch) and logging (S3 / ELK) for performance tracking, enabling data-driven improvements that raised feature adoption by 15%.
- Built an AI assistant for founders and investors using AWS Lambda and API Gateway to provide tailored recommendations, improving decision-making efficiency and adoption.

PuntPartners

Software Developer Engineer Intern

Apr 2025 – Jun 2025

On-site, Bangalore

- Reverse-engineered Q-Commerce platform APIs to build a stealth crawler for desktop and mobile, bringing 1,000+ new users to the company's price-comparison product.
- Built search and compare features for **ToIMol** letting users find the cheapest option for a product across platforms.

OneRoot

Full-Stack Developer Intern

Aug 2024 – Nov 2024

On-site, Bangalore

- Built front-end and back-end features and POCs for the Agri-Tech product helping farmers find harvesters and get better prices for produce.
- Shipped operator-facing dashboards and integrated third-party tools into the existing product, improving day-to-day workflow for the ops team.

PROJECTS

Burnt • `brew install --cask mafex11/tap/burnt`

- Clean engine/UI split: pure *UsageEngine* Swift library (parse -> classify -> price -> aggregate) with zero UI dependencies, fully unit-tested in isolation; SwiftUI MenuBarExtra is a thin shell on top.
- Zero-dependency self-contained distribution: vendors a portable Node runtime and a pinned copy of *ccusage* inside the .app bundle so brew install works with no system Node, no deps, and offline; release script

auto-stamps the Homebrew cask's SHA-256.

- Accurate-to-the-cent aggregation: zero-filled rolling windows (7-day spend, 14-day sparkline, 84-day heatmap), prefix-based model→tool classification, prompt-cache savings estimator.

Git-Schedule • mafex11/tap/git-schedule

- Dual execution model: the same scheduled commit runs via a lightweight local Rust daemon or a generated GitHub Actions cron (*/*) that fires even when your machine is off and auto-disables when the queue drains.
- Crash-safe commit capture: stages work as a patch and unstages it so you keep working, then stashes / applies / commits / restores at run time with a retry queue, never corrupting the working tree.
- Structured as a 3-crate Rust workspace (cli, daemon, shared) over a typed socket protocol with a flexible time parser (--in 1d12h30m, --at "friday 3pm"), scheduled PRs, and one-line macOS / Linux / Windows installers.

Yuki • brew install --cask mafex11/tap/yuki

- Persistent personal memory with semantic recall + nightly self-compaction: markdown memory vault with pluggable embeddings and cosine-similarity retrieval, plus an "episodist" that distills 7 days of activity into durable facts via LLM, so the agent learns who you are.
- Small-model survival kit, ToolRAG + LoopGuard: embeds each tool description once and returns top-K by cosine similarity per task (with fail-open fallback) instead of dumping 16 tools per prompt; LoopGuard fingerprints repeated actions/desktop states to hard-stop runaway loops.
- Native Swift→Python bridge over a Unix domain socket: from-scratch HTTP/1.1 client on NWConnection (buffered + SSE streaming) connecting a SwiftUI menu-bar app to a local Python agent, Keychain-stored tokens, global hotkey, shipped as a one-command Homebrew cask. Windows build drives native apps via UI-Automation accessibility trees with a 100+-test suite.

Additional projects on [portfolio](#).

EDUCATION

Visvesvaraya Technological University

Nov 2022 – Present

Bachelor of Engineering, Computer Science (CGPA: 8.0 / 10)

Bangalore, India

Certifications: EdX Verified, Building Modern Node.js Apps on AWS • Modern Python Apps on AWS • Web Development with HTML5/CSS3/JS (IBM) • Python for Data Science (IBM)

SKILLS

Programming	TypeScript, JavaScript, Python, Swift, Rust, Java, C, C++, SQL
Frontend	React, Next.js, React Native, SwiftUI, Tailwind CSS, Framer Motion
Backend	Node.js, Express, NestJS, Django, Prisma, GraphQL, REST
AI / Voice	OpenAI, Gemini, LiveKit, Pipecat, Firecrawl, TensorFlow, Vector DBs, RAG
Databases	PostgreSQL, MongoDB, MySQL, Firebase, Redis
Cloud / DevOps	AWS (Lambda, ECS, API Gateway, CloudWatch, S3), Docker, CI/CD, Vercel
Tools	Git, GitHub, Cursor, VS Code, Figma
Spoken	English (Bilingual), Hindi (Native), Japanese (Limited Working)

PUBLICATIONS

Automated Brain Segmentation and Classification of Tumor through Robotics and Machine Learning

Awarded **1st place** for Best Research Paper, IJIRAE (International Journal of Innovative Research in Advanced Engineering), 2023.