

ADITYA NANDLAL

AI AGENT & FULL-STACK SYSTEMS DEVELOPER

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PROFILE

AI Agent Developer and multi-product engineer with approximately 10 years of combined industry experience: five years in independent delivery and five years building products at WovVTech, including the proprietary WovVMaps indoor-wayfinding platform. Builds controlled agent workflows, MCP tools, LLM gateways, RAG systems, Python automation, and production software across web, desktop, data, graphics, and self-hosted infrastructure.

CORE EXPERTISE

Agentic AI	Tool/function calling, MCP clients and servers, RAG, structured outputs, human approvals, guardrails, context design, tracing and failure analysis
Languages	TypeScript, JavaScript, Python, SQL, working Rust
Product	React, Next.js, Node.js, Fastify, Payload CMS, APIs, workflows, multi-tenant systems, indoor mapping and wayfinding
Data & delivery	PostgreSQL, MySQL, SQLite, Redis, Docker, Compose, Nginx, CI/CD, GitHub Actions

EXPERIENCE

WOVTECH

Approx. 5 years

Product & Agentic Systems Engineer

- Built multi-product systems across React, Next.js, Node.js, Python, data platforms, self-hosted infrastructure, and AI-assisted workflows.
- Contributed to private WovVMaps administration and backend workflows for venue maps, floors, zones, points of interest, route-ready data, and blue-dot/location-aware navigation support.
- Designed tool contracts, workflow boundaries, API/data layers, approval paths, and security-sensitive product flows.
- Worked end to end from system discovery and architecture through implementation, testing, deployment, documentation, and production operations.

INDEPENDENT / FREELANCE

Approx. 5 years

Full-stack & Automation Developer

- Delivered 40+ private and personal projects across web applications, admin systems, API integrations, automation, platforms, and business tooling.
- Owned client discovery, technical planning, UI and backend implementation, deployment, iteration, and long-term problem solving.
- Built reusable foundations while adapting to changing requirements and production constraints across varied project domains.

SELECTED OPEN-SOURCE IMPACT

Qunta: Built the private-beta foundation for a review-first desktop coding agent with explicit approvals, workspace boundaries, Codex session control, patch previews, and private server-side LLM routing.

Apiagex: Implemented and tested a TypeScript MCP stdio server exposing eight scoped tools for schemas, workflows, route discovery, permissions, and exports.

Codex Blender: Built a Python Blender bridge and MCP JSON-RPC server with structured tools for scene creation, assets, materials, transforms, rendering, inspection, save, and export.

SELECTED PRODUCT WORK

WOVVMAPS

[VIEW LIVE PRODUCT](#)

PROPRIETARY / INDOOR MAPS / ADMIN & BACKEND / WAYFINDING

Contributed to WovVTech's private cloud-based indoor wayfinding product, supporting administration and backend workflows for digitized venue maps, floors, zones, points of interest, route-ready data, and blue-dot/location-aware navigation. The live product serves interactive map experiences across web, mobile, and kiosks; source code remains confidential.

QUNTA

[VIEW SOURCE](#)

TYPESCRIPT / REACT / RUST / TAURI / LLM GATEWAY

Review-first desktop coding-agent private-beta foundation with streamed execution, local Codex sessions, Rust-native workspace safety, action approvals, audit history, provider adapters, and server-side usage controls. Some execution and installer paths remain under beta development.

APIAGEX

[VIEW SOURCE](#)

TYPESCRIPT / FASTIFY / MCP / MULTI-TENANT PLATFORM

Headless CMS, API, and workflow platform with an implemented JSON-RPC stdio MCP server, eight scoped tools, automation-token isolation, route permissions, and SQLite/PostgreSQL/MySQL support.

CODEX BLENDER

[VIEW SOURCE](#)

PYTHON / MCP / BLENDER / AUTOMATION / 3D

Local creative-automation bridge and Python MCP server with 38 declared Blender tools covering procedural scenes, asset search/import, materials, transforms, animation, rendering, inspection, save, and export.

RAW2D

[VIEW SOURCE](#)

TYPESCRIPT / CANVAS / WEBGL2 / AGENT AUTOMATION

Modular low-level 2D rendering engine with explicit Canvas/WebGL pipelines, scene tooling, tests, and MCP-oriented deterministic automation for validation, inspection, editing plans, and code generation.

DBMASON

[VIEW SOURCE](#)

NEXT.JS / PAYLOAD CMS / POSTGRESQL / MYSQL / DOCKER

Self-hosted database access control plane with isolated engine adapters, encrypted credentials, role controls, audit events, catalog inspection, restricted accounts, and a guarded read-only SQL workspace.

VEDA MAIL

[VIEW SOURCE](#)

NEXT.JS / STRICT TYPESCRIPT / JMAP / IMAP-SMTP / DOCKER

Provider-independent, white-label webmail with protected setup, administrator and member 2FA, hardened session handling, sanitized mail rendering, adapter boundaries, and signed multi-platform container delivery.

ENGINEERING APPROACH

CONTROLLED AGENTS	Visible actions, strict tool schemas, scoped permissions, approval gates, safe workspace boundaries, recoverable edits, and useful audit history.
PRODUCTION THINKING	Readable internals, modular adapters, honest capability boundaries, tests, release checks, documentation, Docker delivery, and security by default.