

Osama Inayat

AI Platform Engineer | Full-Stack Engineer | Agentic Systems

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PROFESSIONAL SUMMARY

AI platform and full-stack engineer with 7+ years building B2B SaaS, marketplace, admin, workflow automation, and AI-governance products. Recent work includes provider-agnostic AI runtime design across Claude, OpenAI, and Databricks surfaces; AI agent lifecycle systems; eval-gated workflows; tenant-safe controls; Slack/HRIS integrations; and coding-agent operating systems that make delivery repeatable and verifiable.

Provider-agnostic AI runtime	Eval-gated task lifecycle	Tenant-safe governance
Agentic ticket-to-PR workflow	Rails/Next/Vue product systems	Browser-verified delivery

TECHNICAL STACK

AI/LLM	Vercel AI SDK, Anthropic Claude, OpenAI GPT, OpenAI Responses API, structured generation, eval frameworks, AI agent registries, Databricks Agent Bricks, Model Serving, Apps, Jobs, Genie.
Frontend	Next.js 15, React 19, Vue.js, Nuxt 3, TypeScript, Tailwind CSS, shadcn/ui, Pug, SCSS, ReactFlow, dagre.
Backend	Ruby on Rails, Graphiti, Node.js, Express, Laravel, JSON:API, ActionCable, Redis, REST APIs.
Data	PostgreSQL, Neon, MySQL, Drizzle ORM, warehouse-style modeling, indexing, migrations, schema discipline.
Security	Clerk, RBAC, tenant isolation, audit trails, secret redaction, CodeQL, Dependabot, dependency hardening.
Integrations	Merge.dev, Slack apps/OAuth, Microsoft OAuth, IMAP, Oracle Eloqua, HubSpot, Outreach, ActiveCampaign, Ubiquiti, Meraki.
Verification	GitHub Actions, RSpec, RuboCop, Vitest, Playwright, CircleCI-style workflows, Pronto, browser QA, focused preflight checks.

PROFESSIONAL EXPERIENCE

SuperOrgs - Founding Engineer, Full-Stack

Mar 2026 - Present | B2B SaaS AI-workforce governance platform

Founding-engineer ownership on a platform that tracks AI agents alongside human employees, connects HRIS systems, visualizes combined org structures, and enforces AI-workforce governance.

- > Built provider-agnostic Orion assistant, multi-provider agent registry, eval framework, lifecycle system, Task Library, org chart, Slack app, and Merge.dev HRIS sync.
- > Shipped a cross-tenant admin portal with super-admin gating, append-only audited mutations, automatic secret redaction, read-only impersonation, org reset/delete flows, and fail-closed tests.
- > Codified tenant isolation, auth, and secret-egress conventions as architectural fitness tests plus ESLint module boundaries that fail CI on violations.
- > Authored the Claude Code workflow stack that turns tickets into isolated worktrees, reviewed implementations, browser QA evidence, and PR handoff.
- > Applied LLMs through structured generation for AI-inferred role and salary estimates, tool-description suggestions, release-note generation, and task routing.

Stack: Next.js 15, React 19, TypeScript, PostgreSQL/Neon, Drizzle ORM, Clerk, Trigger.dev, Tailwind/shadcn, Vercel AI SDK, Claude/OpenAI, Databricks, ReactFlow, Zod, Turborepo, pnpm, Vitest, Playwright.

MachineTools.com - Software Engineer

Jun 2022 - Present | Remote, United States

Key contributor across Rails marketplace/admin systems and the Nuxt/Vue MachineManager frontend.

- > Built AI Asset Appraiser workflows using OpenAI-powered streaming, Responses API, ActionCable updates, live reasoning steps, web-search-backed valuation context, persisted search data, quota enforcement, and admin UX.
- > Generalized valuation streaming into reusable MMaiRunner infrastructure with run persistence, strategy discovery, tenant/user-scoped snapshots, stale-run recovery, streaming/polling UI support, and lifecycle hooks.
- > Built MP AI Search foundations for natural-language filter extraction, keyword resolution, search-plan gating, redirect URL generation, cache layers, analytics logging, rate limiting, secure socket/result delivery, and quota controls.
- > Implemented Pro/Pro+ billing systems, supplier tiers, usage columns, tier rates, discounts, company stats APIs, MRR reporting, server-computed billing values, admin permissions, and matching MMA admin UI updates.
- > Reduced GitHub Actions RSpec wall-clock time from about 27 minutes to about 11 minutes through a 6-way parallel matrix and related CI improvements.

- > Kept backend/frontend contracts aligned across Rails Graphiti APIs and the Nuxt/Vue frontend, with explicit checks for fields, filters, routes, enums, permissions, locales, and models.

Stack: Ruby on Rails, MySQL, Graphiti, Nuxt 3, Vue.js, TypeScript, Tailwind CSS, Pug, CoffeeScript, RSpec, RuboCop, ActionCable, Redis, OpenAI, GitHub Actions, Pronto.

AGENTIC DEVELOPMENT WORKFLOW

At SuperOrgs, product development was built around Claude Code and Anthropic Agent SDK patterns: custom slash-command skills, event hooks, subagents, multi-agent workflows, git-worktree isolation for parallel agents, persistent file-based memory, MCP servers for Linear, Slack, GitHub, and PostHog, and headless-browser QA.

- > In-house skills authored: /sup-auto, /ticket, /superorgs, /autopilot, /babysit-prs, /sup-queue, /deps-bundle, /skill-retro, and /ship.
- > /sup-auto executes the autonomous ticket loop: brainstorm, plan, TDD, implementation, multi-agent review, in-browser verification, and draft-PR handoff.
- > Guardrails fail closed through a friction logger, auto-format hooks, doc-freshness checks, destructive-command guard, quality-file guard, pre-push checks, and worktree sync/main-root resolution.
- > Practices include agentic ticket-to-PR automation, adversarial code review, test-driven and browser-verified delivery, friction-log retros, tiered autonomy, and a planning/design/review/QA command stack.

EARLIER EXPERIENCE

Sendoso - Software Engineer

May 2021 - Jul 2022 | Lahore, Punjab, Pakistan

Built product features, workflow improvements, integrations, and performance improvements for a gifting platform.

- > Helped extract microservices from a monolith using Domain-Driven Design.
- > Architected a Chrome extension that reduced engineering effort and recurring bug risk.
- > Upgraded and implemented Oracle Eloqua, HubSpot, Outreach, and ActiveCampaign integrations.
- > Improved application performance through database indexing and test-suite optimization.

Stack: JavaScript, Vue.js, Ruby/Rails ecosystem, Chrome Extensions, Oracle Eloqua, HubSpot, Outreach, ActiveCampaign, database indexing, test optimization.

Fliclicks - Software Engineer

Feb 2020 - May 2021

Delivered full-stack features and IT asset workflows across web and desktop surfaces.

- > Generalized and architected import/export workflows, reducing customer support inquiries by 50%.
- > Optimized a network-scanning desktop application and integrated NMAP into the workflow.
- > Built analytics and integrations for IT asset spending, Ubiquiti, and Meraki systems.

Stack: Vue.js, React, Ruby on Rails, NMAP, C#/.NET, IT asset management integrations.

AlphaDnD - Software Engineer

Dec 2018 - Jul 2022

Worked on low-code/no-code software automation and web/mobile mockup creation.

- > Contributed to a multi-language code-builder beta that converted visual programming flows into traditional code.
- > Built platform capabilities involving generated code across Java, JavaScript, and Swift.
- > Developed React and Node.js architecture for web/mobile mockup generation.

Stack: React, Node.js, JavaScript, low-code/no-code architecture, visual programming, generated code.

SELECTED PROJECTS AND PUBLICATION

Data Warehouse for HR System

Sep 2018 - Jan 2019 | COMSATS University Islamabad

Built a Laravel data warehouse for HR workflows, generated historical data for 1,000+ employees across more than 10 years, and modeled reviews, increments, salaries, allowances, clients, and managers.

Tools: PHP/Laravel, data warehouse, HR modeling.

MAPonSMS

CEUR-WS / FIRE 2018

Co-authored the FIRE'18 MAPonSMS author-profiling work on multilingual Roman-Urdu and English SMS text, using stylometric, Bag-of-Words, and psycholinguistic features to predict author gender and age.

Tools: Author profiling, Roman-Urdu / English SMS, BoW features, psycholinguistic features.

Oracle Eloqua Ruby API Wrapper

Ruby gem

Created a Ruby API wrapper for Oracle Eloqua application APIs covering campaign operations and Eloqua asset types in the initial version.

Tools: Ruby, Oracle Eloqua, API wrapper.

Web-Based Mobile App Mockup Creator

React / Node.js

Built web/mobile mockup generation work for low-code/no-code application design workflows.

Tools: React, Node.js, mockup generation.

EDUCATION

COMSATS University Islamabad

Bachelor's in Software Engineering / Computer Science | 2016 - 2020

Profiles: [LinkedIn](#) | [GitHub](#) | [Legacy public GitHub projects](#)