

Nikhil Suhas Patil

Software Engineer

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SUMMARY

Software Engineer with 2+ years of hands-on software development experience, including production ownership of backend systems in a fast-paced startup. Experienced in building FastAPI microservices, REST APIs, event-driven workflows and cloud-deployed services using PostgreSQL, Redis, Kafka, Docker and GCP. Owned services across authentication, payments, integrations, workflow execution and database migrations, with strong exposure to CI/CD, automated testing and cross-functional product delivery.

EXPERIENCE

Software Engineer <i>RUH AI</i>	12/2024 – Present Spokane WA, United States (Remote)
Technology: Python, Artificial Intelligence (AI), RESTful APIs, FastAPI, PostgreSQL, MySQL, MongoDB, Model Context Protocol, Multi-agent Systems, Microservices , gRPC, Kafka, Redis, Docker, GCP, AutoGen, LangGraph, Workflows, Database Migration, CI/CD Pipelines	
Project: Ruh.ai	
Full Stack Developer <i>TechnoGrowth Software Solutions Pvt. Ltd. , Pune</i>	01/2024 – 08/2024 Pune, India
Technology: Python , FAST API, Microservices, ReactJS, CICD, MySQL , MongoDB	
Project: Exam Portal , Smart Attendance System	

EDUCATION

B.Tech <i>Walchand Institute Of Technology, Solapur</i> SGPA : 9.55	2020 – 2024 Solapur, Maharashtra
HSC <i>Nav Krishna Valley Jr. College of Science , MIDC ,Kupwad</i> Marks : 60.15 %	2019 – 2020 Sangli, Maharashtra
SSC <i>Pandit Nehru Vidyalyaya , Kavlapur , Sangli</i> Marks : 83.20%	2017 – 2018 Sangli, Maharashtra

SKILLS

Programming Languages Python, Java, Node Js, TypeScript	Web Technologies HTML , CSS , JavaScript, Bootstrap , Angular , React JS Material , PrimeNG
Frameworks Fast API, Flask, Spring Boot, Hibernate, Microservices, Bun, Elysia, AutoGen , LangGraph	Databases MySQL, PostgreSQL, MangoDB, Redis, Neo4j
Tools VS Code, Cursor, GitHub, Agile Methodologies, Agentic Workflows, Augment Code, Roo Code, Claude Code, Codex	Soft Skills Microsoft Office , Outlook , Excel , Presentations

CERTIFICATIONS

Python Programming

Infosys Springboard

AWS Essentials & Fundamentals

AWS Academy

PROJECTS

Ruh AI

(Product at Rapid Innovation)

Objective : Built and led the entire backend architecture of Ruh.ai from zero to production — powering autonomous AI agents, MCP infra and 2800+ automation tools — as the founding engineer.

Roles & Responsibilities :

- Architected and owned the **entire backend system from zero to production**, including API Gateway (FastAPI + Kafka + Redis) and all core microservices powering the platform.
- Built platforms enabling **autonomous AI agents as digital employees**, integrating AutoGen, LangChain, MCP, workflows, streaming & memory-driven execution.
- Led development of **10+ mission-critical backend services** — User/Auth/Payments, Workflow Builder, Agent Runtime, Integration Layer, Organisation/Knowledge Intelligence, MCP Registry & Deployment etc.
- Added **2,800+ integrations & 40+ MCP servers**, powering automation, workflows, and AI reasoning capabilities — drastically increasing agent performance & integration coverage.
- Engineered **self-hosted MCP deployment system** with auto-scaling via GCR, enabling plug-and-play AI developer marketplace. [store.ruh.ai]
- Built the foundation of **AI Voice & Calling Platform** — outbound/inbound call infrastructure with event-driven execution and agent orchestration.[voice.ruh.ai]
- Designed **AI-assisted TDD + PRD-driven development workflow**, enabling engineers to auto-generate test cases, service stubs, and API contracts → **cut feature delivery time by 50%**.
- Implemented **automated DB migration pipeline in CI/CD** (auto-generated schema diffs + rollback safety), eliminating manual migrations & reducing release friction to **zero-touch deploy**.
- Enforced **PR quality gates** — static analysis, auto-test synthesis, architectural rule checks, dependency security scan — blocking low-signal PRs **before human review**.
- Introduced **coverage + integration test barrier in CI**, requiring minimum code coverage & functional verification before PR merge — **stopping regressions at the pipeline level**.
- Seamlessly integrated high-leverage development infra:
 - **OpenRouter (LLM orchestration)** for realtime developer assist & dynamic test generation
 - **Requestly, Pipedream, Composio** for workflow automation & staging/live traffic replay
 - **GCS, GCR & Google Secret Manager (GSM)** for secure infra-backed deployment & secrets lifecycle mgmt.
- Delivered **multiple product demos to investors**, directly contributing to **successful funding milestones** and go-to-market validation.
- Recognized as **impact engineer**, awarded for **extreme autonomy, fast execution, and reliability under pressure** in a no-senior-dev environment.

Exam Portal

(Live Project during Internship in TechnoGrowth)

Objective: To develop user-friendly online examination systems that enhance educational experiences through efficient design and robust backend functionality.

Technology Stack: Java , Angular , Spring Boot , Angular Material ,SDLC, TypeScript , MySQL , Postman

AgroCart

(Smart India Hackathon & final Year Project)

Objective: Website for farmers to sell their produce directly to buyers at better rates, thereby enhancing their profitability and market reach.

Technology Stack: Java , Angular 17, Spring Boot , MySQL , TypeScript , Postman , GitHub