

Vasil Abdul Razak

BACKEND ENGINEER · OPEN-SOURCE CONTRIBUTOR

Kerala, India

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Summary

Backend Engineer with 5+ years of experience building scalable, enterprise-grade automation platforms. Core contributor and backend owner of **Wraft**, an open-source document lifecycle automation system with **120+ GitHub stars**, recognized at **IndiaFOSS 2025**. Expertise in distributed systems, real-time collaboration, and workflow automation, digital signatures using **Elixir/Phoenix**, with proven ability to architect production-ready systems from MVP to enterprise deployment.

Professional Experience

Independent Consultant

Remote

FREELANCE BACKEND ENGINEER

Dec 2024 – Present

- Delivering backend engineering solutions for ERP-focused systems and business automation platforms.
- Developing and extending **ERPNext/Frappe** modules to support complex accounting workflows, reporting systems, and operational automation.
- Building scalable backend services and API integrations using **Node.js** to connect ERP systems with third-party platforms.
- Providing technical consultation on backend architecture, data modeling, and performance optimization for business-critical applications.
- *Technologies: ERPNext (Frappe Framework), Node.js, PostgreSQL, REST APIs*

Functionary Lab

Bangalore, India

FOUNDING ENGINEER / BACKEND ENGINEER

Jan 2022 – Nov 2024

- Core contributor and backend owner of **Wraft**, an open-source document lifecycle automation platform with **120+ GitHub stars**, showcased at **IndiaFOSS 2025**, demonstrating real-world adoption and community trust.
- Designed and implemented foundational backend architecture using **Elixir/Phoenix**, including **role-based access control (RBAC)**, multi-tenant authorization, and secure organization-level data isolation.
- Built real-time **collaborative editing** engine and form builder backend using Phoenix Channels and **WebSockets**, enabling concurrent document authoring with conflict-free live synchronization.
- Architected and shipped a scalable **multi-organization system** with granular permission management, enabling enterprise onboarding and supporting **270+ active communities**.
- Developed extensible **workflow automation** and background job orchestration pipelines using **Oban**, powering document approvals, notifications, and complex state transitions at scale.
- Implemented secure **document signing and PDF processing pipelines**, integrating cryptographic signatures and comprehensive audit trails using **Elixir NIFs, Rust**, and Java-based PDF libraries.
- Contributed over **50,000+ lines of production code** across **270+ commits**, evolving Wraft from MVP to a production-ready, enterprise-grade platform.
- Mentored junior engineers, conducted thorough code reviews, and improved CI/CD pipelines through test-driven development practices, strengthening overall code quality.
- Deployed, monitored, and operated production systems on **Kubernetes**, ensuring high availability, scalability, and observability for mission-critical workflows.

Impact: Led Wraft's evolution from early-stage MVP to enterprise-ready platform with pilot deployments; earned recognition at IndiaFOSS 2025 as an emerging leader in open-source document automation.

Independent Consultant

Remote

FREELANCE BACKEND ENGINEER

2021

Knocus Solutions PVT LTD

Hyderabad, India

FOUNDING ENGINEER / BACKEND ENGINEER

2019 – 2020

- Co-founded and involved in product ideation and development for a collaborative online platform for creating and sharing content (stories, poems, articles).
- *Technologies: Go (Golang), PostgreSQL, REST APIs, WebSockets*

Technical Skills

Languages	Elixir, Go, Rust, Python, Java, C/C++, JavaScript
Backend & Frameworks	Phoenix, Ecto, Oban, Node.js, ERPNext/Frappe, Express.js
Databases & Caching	PostgreSQL, MySQL, Redis, Valkey, database design & optimization
DevOps & Infrastructure	Kubernetes, Docker, GitHub Actions, GitLab CI/CD, Sentry, MinIO, Devtron
Libraries & Tools	GraphQL, Plug, Guardian, Waffle, Kaffy, Swoosh, WebSockets, Pandoc, LaTeX
Core Competencies	Distributed Systems, REST APIs, RBAC, Multi-tenancy, Workflow Automation, Real-time Collaboration, TDD, System Design

Key Projects

Wraft – Document Lifecycle Automation Platform

github.com/wraft

OPEN SOURCE

- **Community Impact:** Open-source platform with **120+ GitHub stars**, demonstrating organic adoption and real-world usage across multiple organizations.
- **Access Control:** Designed and implemented fine-grained, role-based access control (RBAC) system with multi-tenant isolation and organization-level permissions.
- **Workflow Engine:** Built dynamic document workflow pipelines with background job orchestration, state management, and automated approval chains.
- **Real-time Collaboration:** Engineered collaborative editing system with conflict resolution, live synchronization, and form builder capabilities.
- **Document Security:** Integrated e-signature workflows and PDF signing pipelines with cryptographic verification using Elixir NIFs and Rust.

Education

Indian Institute of Information Technology, Sri City	Andhra Pradesh, India
B.TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING	2014 – 2018

Recognition & Community

2025	IndiaFOSS 2025, Wraft showcased as an emerging open-source document automation platform at India's premier FOSS conference	India
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