VISHNUPRASAD KAMALON

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Portfolio | GitHub | LinkedIn

SUMMARY

Highly experienced and proactive Senior Software Engineer with 8 years of success in designing, developing, and deploying scalable software solutions, primarily using Ruby on Rails and Python. Proficient in cloud-native environments (AWS, Docker, Kubernetes), CI/CD pipelines, and Infrastructure as Code (Terraform). Extensive experience with RESTful APIs, event-driven architectures (Kafka), and various databases including PostgreSQL, MySQL, Elasticsearch, and Redis. Proven ability to optimize system performance, enhance maintainability, and contribute to collaborative, agile teams.

SKILLS

Programming Languages: Ruby, Python, Javascript, Typescript, Java

Frameworks/Libraries: Ruby on Rails, FastAPI, Flask, Ember.js, React

Databases & Data Storage: PostgreSQL, MySQL, Elasticsearch, Redis, Amazon Redshift

Cloud & DevOps: AWS (EC2, RDS, S3, etc.), Docker, Kubernetes, Terraform, Jenkins, Kafka.

APIs & Protocols: RESTful APIs, GraphQL, HTTP, WebSockets

Testing: RSpec, MiniTest, PyTest, Cucumber (BDD), Playwright

Methodologies: Agile, Scrum, Domain-Driven Design (DDD), Microservices, Event Driven Design, TDD, BDD

Version Control(VCS): Git

Others: Sidekiq, Jira, Confluence, RabbitMQ, HTML5, CSS

WORK EXPERIENCE

Senior Software Engineer | Clark Holding SE, Frankfurt

NOVEMBER 2021 - PRESENT

- Developed and maintained InsureTech (FinTech) software using Ruby on Rails, FastAPI, Ember.js, TypeScript, and PostgreSQL, contributing to services powering a leading application.
- Served as a full-stack developer, enhancing features and resolving issues for the "Life & Health" team.
- Integrated a third-party AI bot with the Clark app, which uplifted in-app appointments by 10% in Q1 2025, demonstrating experience in integrating external services and improving product functionality

- Successfully migrated Amazon RDS managed PostgreSQL database from version 11 to 13 using a Blue/Green deployment strategy, ensuring minimal downtime and data integrity.
- Optimized Jenkins pipeline and Kubernetes deployment for the testing environment, reducing build time by 40% and improving development efficiency.
- Engineered custom activity for Salesforce Marketing Cloud, enabling Journey Builder to connect with the Clark app, showcasing ability to integrate with partner platforms.
- Improved the performance of slow-loading pages by optimizing code and database queries, focusing on system usability and maintainability.
- Actively participated in code reviews, contributed to unit testing efforts, and collaborated closely with QA engineers to uphold high code quality standards.
- Managed production and staging deployments using Jenkins and performed cloud activities on AWS for CI/CD processes.
- Developed BDD tests using the Cucumber and Playwright framework to ensure comprehensive test coverage.
- Facilitated Agile sprint ceremonies using JIRA & Confluence and managing dependencies.
- Mentored frontend engineers in Ruby on Rails and backend architecture, fostering knowledge sharing within the team.
- Tech stack**: Ruby on Rails, Python, FastAPI, Ember.js, Postgres, Redis, Sidekiq, Git, Docker, Kubernetes, AWS, Jenkins, Cucumber, Playwright**

Software Engineer | Synup Digital Pvt Ltd, Bangalore

MAY 2019 - NOVEMBER 2021

- Developed and enhanced software solutions using Ruby on Rails, Flask, React, GraphQL, TypeScript, and PostgreSQL.
- Designed and implemented robust backend systems incorporating Elasticsearch, Redis, Kafka, and RabbitMQ, demonstrating experience with microservices, distributed systems and event-driven architecture.
- Built a system to integrate Trustpilot Auth flow and its review API with the platform.
- Analyzed and integrated listing APIs such as Google My Business, Facebook, and Bing.
- Introduced real-time notifications using Rails ActionCable (WebSockets).
- Increased overall test coverage to 40% using RSpec and MiniTest.
- Developed a reporting tool using Amazon Redshift on 2 billion records.
- Managed the billing module and integrated Chargebee with the platform.
- Played a core developer role in making the product voice-ready for Google Assistant, Bixby, Alexa, Cortana, and Siri, resulting in a 15% increase in product sales in Q4 2020.
- Tech stack**: Ruby on Rails, Python, Flask, React, TypeScript, Postgres, Redshift, Elasticsearch, Redis, GraphQL, Kafka, RabbitMQ, Sidekiq, Git, AWS.**

Software Engineer | Foradian Technologies Pvt Ltd, Bangalore

JULY 2017 - MAY 2019

- Designed and developed key features for the Fedena ERP, including Applicant Enquiry, Applicant Registration, and Transfer Certificate modules.
- Designed and built REST APIs for the Fedena Connect mobile application.

- Wrote and optimized complex SQL queries within the Finance module for fee calculation, fine application, and discount management based on institutional rules, working extensively with MySQL.
- Tech stack included: **Ruby on Rails, MySQL, JavaScript, HTML5, CSS, Git.**

PERSONAL PROJECTS

LoweCLI:

[Github]

GenerativeAI powered command line tool to assist developer with code debugging, command suggestions, document lookup and more

Tech stack: Python, FastAPI, GenAI - Gemini AI, Retrieval-augmented generation(RAG)

ATScribe:

[Github]

GenerativeAI powered ATS compatible resume generator command line tool

Tech stack: Python, GenAI - Gemini AI, Ollama

PyVaccineTracker:

[Github]

Python app to check covid vaccination slot availability and publish the result to a Telegram group

Tech stack: Python, Telegram API, Telegram Bot

EDUCATION

LBS College of Engineering, Kasaragod(Kannur University) — *Bachelor Degree*

JULY 2013 - MARCH 2017

Bachelor of Technology in Computer Science and Engineering