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SUMMARY

Dedicated 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**.

SKILLS

Programming Languages: Ruby, Python, Javascript, Typescript.

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

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

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

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

Architectural Patterns: Microservices, Event-Driven Architecture, Domain-Driven Design (DDD).

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

Methodologies: Agile, Scrum, TDD, BDD.

Version Control(VCS): Git.

Others: Sidekiq, Jira, Confluence, Kafka, RabbitMQ, HTML5, CSS, Splunk.

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 **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.
- Engineered a **Python-based command-line tool** leveraging the **Langchain** framework and Google's **Gemini GenerativeAI API** to assist with code debugging and command suggestions.

Tech stack included: **Ruby on Rails, Python, FastAPI, Ember.js, PostgreSQL, Redis, Sidekiq, Git, Docker, Kubernetes, AWS, Jenkins, Cucumber, Playwright, CircleCI, GitHub Actions, Langchain, GenAI - Gemini API.**

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 included: **Ruby on Rails, Python, Flask, React, TypeScript, PostgreSQL, Redshift, Elasticsearch, Redis, GraphQL, Kafka, RabbitMQ, Sidekiq, Git, AWS, CircleCI, GitHub Actions.**

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.**

EDUCATION

Bachelor of Technology in Computer Science and Engineering

LBS College of Engineering, Kasaragod (Kannur University)

JULY 2013 - MARCH 2017

PERSONAL PROJECTS

LowCLI:

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

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

<https://github.com/vpk11/lowe-cli>

ATScribe:

GenerativeAI powered ATS compatible resume generator command line tool.

Tech stack: Python, GenAI - Gemini AI(LLM), Ollama.

<https://github.com/vpk11/atscribe>

PyVaccineTracker:

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

Tech stack: Python, Telegram API, Telegram Bot.

<https://github.com/vpk11/PyVaccineTracker>

INTERESTS

- Exploring Generative AI & Open-Source Tools.
- Mobile Development.

LANGUAGES

- **German** - *Basic*
- **English** - *Fluent*
- **Malayalam** - *Native*