Malay Sarkar

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Detail-oriented Java Full-Stack developer with 4+ years of experience skilled in Spring Boot, React/Next.js, PostgreSQL, and AI integrations, plus CI/CD and containerized deployments across AWS, Azure, and GCP.

SKILLS

Technical: Java 17, Spring Boot, JWT, Spring AI, React/NextJs, PostgreSQL, Hibernate, Junit 5, Docker, Tailwind, Redux

Tools: AWS, Azure, GCP, Gitlab with Gitlab Runner(CI/CD), Testcontainers, Maven, Cursor AI, Figma, ERPNext

Libraries and Cloud APIs: Quartz Scheduler, Pdfbox, Apache POI, WhatsApp Business API, Swagger, many Azure and GCP apis

Other skills: Shell scripting(bash), Linux (Rhel , Ubuntu , Debian), VPN (Wireguard)

EXPERIENCE

Alfalabs Technologies LLP   *Mumbai, India(Remote)*

Software Developer   Aug, 2023 – Present

- Single-handedly developing , writing test cases and maintaining the complete **Robotan-Dashboard** project, **WhatsApp Chat Bot** with AI integration(**RAG**) and some features of **Robotan** (The Automation Bot)
- Create deployment strategies for different client's system(Intranet, VPN, Distributed , Linux, Windows etc) and train the team on new features and deployment strategies.
- Handle the complete development life-cycle of three **official company websites**
- Collaborate with Business Analyst teams to gather requirements for new features and resolve issues.
- Find and deploy opensource solutions for different requirements like project management, vpn, rdc, ci/cd

Freelancer

Web/Software Developer   Feb, 2021 – July, 2023

- Developed and delivered custom web and software solutions tailored to local client requirements, ensuring on-time completion and satisfaction.

PROJECTS

Robotan Dashboard

A comprehensive full-stack application for managing and orchestrating the Robotan automation bot ecosystem. The platform serves as a centralized dashboard for enterprise-level process automation, providing end-to-end workflow management, execution monitoring, and scheduling capabilities.

Java 17 · Spring Boot · React (Next.js) · RTK Query · TailwindCSS · PostgreSQL · JUnit 5 · Docker · AWS/AZURE/GCP

- Designed and built a web dashboard that orchestrates automation workflows.
- Implemented secure **authentication/authorization** and **multi-tier license-key generation and validation** (device binding, usage limits, tracker scopes).
- Delivered real-time **graphs and charts** for live execution metrics using frequently api polling.
- Added a calendar-based **scheduler** with holiday rules, failure-retries, and on-demand (manual) job triggers.
- Built CRUD with pagination for core entities—workflows, processes, trackers, scheduled jobs, Workspaces etc.
- Dockerization of the application (backend and frontend) and complete ci/cd for deployment to docker hub.
- Automation config backup and restoration system using Google Drive API

Robotan (The Automation bot)

It is an enterprise-grade automation engine that performs web and desktop automation tasks using multiple automation libraries , frameworks and cloud apis from GCP/AZURE

Java 17 · Spring Boot · Document Intelligence, Vertex AI, Gmail/Outlook/Gdrive/OneDrive · Slack api · WhatsApp api
- Optimized db interaction ,file handling and api calling with performance improvement of ~60%
- Implemented two way communication systems with Robotan-Dashboard using rest apis.
- Fetch current system info (hardware ids like MAC) for license validation
- Notification system with support for different channel like WhatsAapp, Gmail, Outlook, Slack etc
- File upload/download/search on Google drive/ Onedrive and Google sheet manipulation
- Data extraction from invoices and generate excel sheets with custom format

AI Integrated WhatsApp chatbot

This insurance chatbot uses retrieval-augmented generation (RAG) to recognize returning WhatsApp numbers, instantly pull their account data, answer FAQs, and suggest one-tap renewals or upgrades; new numbers enter a short form that captures their details, scores buying intent, adds them to the CRM, and shows products—handing hot leads to sales.

Java 17 · Spring boot · Spring AI · GPT-5 · PgVector · text-embedding-3 · Meta Cloud API · Custom Webhook
- Implemented custom webhook for two way communication
- RAG system for custom knowledgebase for AI models
- Up to 60% cost cutting on ai model usage using RAG optimizations
- Lead generation on getting message from new numbers

Corporate websites for Alfalabs Technologies, Robotan and Mynet Insurance

Built sleek, responsive corporate sites for Alfalabs Technologies, Robotan and Mynet Insurance, each reflecting its unique brand with lead generation from contact us page.

Technologies used : NextJs · Node.Js · GoogleApis · node mailer · TailwindCSS · shadcn ui · Figma · Google Analytics
Live links : [Alfalabs Technologies](#) , [Robotan](#), [Mynet Insurance](#)

Medicare

an e-commerce platform dedicated to prescription and OTC medicines, streamlining search, ordering, and doorstep delivery. Integrated secure payment gateways and real-time inventory management, and ensuring regulatory compliance.

Java 8· Spring Boot · Angular · MaterialUI(Angular Material) · MySQL · Docker · AWS · Razorpay
- Built an online pharmacy with fast search and one-click checkout.
- Integrated Razorpay for secure payments and order tracking.
- Synced inventory in real time and flagged expiries.
- Deployed Docker containers on AWS for smooth releases.

EDUCATION
- **B.Tech** in Computer Science and Engineering with 7.12 CGPA

CERTIFICATIONS
- Online Full-Stack Java Development course By Simplilearn – Sept, 2022- March, 2023