

RATNESH MAURYA

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Experience

Initializ Pvt. Ltd.

Aug 2023 - Now

Gurugram

Software Developer Engineer

- Led the development of scalable backend systems and **AI-powered** solutions across **defense, fintech, and infrastructure** domains.
- Architected the Indian Army's first-ever data lake, optimizing data storage, accessibility, and enabling actionable intelligence through a **text-to-SQL** chatbot powered by **LLMs**.
- Designed and implemented **Retrieval-Augmented Generation (RAG)** systems for document intelligence — extracting text from PDFs, generating embeddings, and leveraging **Qdrant DB** for efficient **vector search** and retrieval.
- Pioneered digital lending platform enhancements via **NSDL, Aadhaar, and PAN verification** integrations, slashing user onboarding time by 57% and boosting application approvals by 9% due to streamlined identity checks.
- Designed scalable **PostgreSQL** database schemas supporting **50+ complex entities**, ensuring efficient storage and high-performance data retrieval.
- Built a secure **Secret Management Platform** with client-side encryption & decryption, implementing Role-Based Access Control (**RBAC**) for fine-grained access to sensitive information.
- Developed a **Kubernetes Controller** to dynamically manage and update 50+ secrets based on Custom Resources, achieving a 67% reduction in system update latency using Golang concurrency patterns.

EMSEC Pvt. Ltd.

Mar 2023- Aug 2023

Software Developer Intern

Remote

- Developed **scalable RESTful APIs** using **Python and Flask**, handling **1,000+ user requests per minute**, significantly improving backend performance.
- Implemented an **automated web scraping solution** to collect **SSL certificate details from 300+ domains**.

Technical Skills

Languages

Golang, TypeScript, SQL, Python, Javascript, C++, Elixir

Tools & Frameworks

Go-Gin, React.Js , Next.Js, Fast-Api, Flask, Tailwind CSS, Phoenix

Databases

Postgres, MongoDB, Qdrant DB, Redis

Platform

AWS, Terraform

DevOps & Version Control

Git, Docker, Kubernetes,GitHub Action

Education

Dr. APJ Abdul Kalam Technical University

Nov 2020 – Jun 2024

Kanpur, India

Bachelor of Technology- Computer Science and Engineering

Maharshi Patanjali Vidya Mandir

Apr 2017 - Apr 2019

Allahabad, India

Intermediate

Projects

Rehabify | **Golang, TypeScript, MongoDB, React.js**

July 2024

- Developed **Rehabify**, a centralized platform for addiction recovery and rehabilitation in India, leveraging **Golang, TypeScript, and MongoDB** to streamline access to essential resources. Built a **React.js-based** dynamic and responsive frontend with advanced search functionality, ensuring seamless user experience across devices. Key features include **patient registration and tracking, a comprehensive resource directory, home remedies**, enhancing accessibility and support for individuals in recovery. . [Github](#)

Unzip_N_Open | **Golang, CLI , Go Cobra**

May 2024

- Developed **Unzip N Open**, a **CLI tool** built with **Golang and Go Cobra** to simplify file extraction and opening in various IDEs or text editors across **Linux, Windows, and macOS**. Implemented features for seamless unzipping and direct integration with **IntelliJ IDEA and Visual Studio Code**. . [Github](#)

Certificates / Achievements

- [AWS Certified Solutions Architect - Associate](#)
- [LFD121: Developing Secure Software \(The Linux Foundation\)](#)
- [GitHub Copilot \(GitHub\)](#)

Oct 2023