ANKIT RAIKWAL

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EXPERIENCE

Tech Lead(Software Developer)
Square Group Technologies

📅 12/2024 - Present　　📍 Remote

- **Led a team of 5 developers** to design and implement core systems, including loan integrations, ad-tech platforms, and SaaS analytics solutions, taking ownership from **architecture and design to coding and deployment**.
- **Architected and built a loan integration system**, improving **data aggregation speed by 40%** through optimized API calls and database design.
- **Optimized API response times by 50%** via database query tuning, **eager loading**, and indexing critical tables for high-volume operations.
- **Integrated background jobs with Sidekiq**, reducing processing time for high-volume tasks by **60%**, ensuring a seamless and reliable user experience.
- **Refactored legacy Rails codebase**, reducing complexity by 25% and improving **test coverage to 90%**, enabling faster and safer deployments.
- **Deployed and managed production servers** on Vultr and Linode, ensuring **99.9% uptime** and optimal performance.

Data Analyst
NAINI PAPERS LTD

📅 01/2024 - 11/2024　　📍 India

- Manage and optimize SAP-based production planning workflows, ensuring alignment with real-time shop floor activities and inventory levels.
- Maintain and update Material Master Data in SAP, **improving data accuracy and reducing errors in procurement and production cycles**.
- Independently troubleshoot and provide data-driven solutions within **SAP to resolve planning, inventory, and process-related issues**.
- Used machine learning tools to cut **Back Water Consistency** on production machines by 5%
- **Automated data collection and anomaly detection** in production lines, leading to a **20% reduction in manual monitoring efforts** and faster issue resolution.
- **Developed a predictive model for process optimization**, reducing raw material consumption by **8%** while maintaining product quality.
- Built an **OT/ITSM management system** with the MERN stack, automating workflows and eliminating manual tasks.

Graduate Engineer Trainee
NAINI PAPERS LTD

📅 07/2023 - 12/2023

- **Worked closely with the database team** to optimize **SQL queries and indexing**, reducing query execution time by **40%.**
- **Designed and optimized database schemas**, improving data retrieval efficiency and reducing unnecessary joins.

Data Analyst
COPPERPOD IP

📅 01/2023 - 06/2023　　📍 India

- **Assisted the strategy team** in developing a **new IP management product**, conducting research that shaped **some key features** to improve legal workflow efficiency.
- **Conducted data analysis on IP trends**, identifying **strategic insights** that streamlined decision-making for trademark and patent filings.

EDUCATION

BTech in Computer Science and Engineering
BIRLA INSTITURE OF APPLIED SCIENCES

📅 08/2019 - 06/2023　　📍 Bhimtal, India

- 74.97%

Intermediate
TULARAM-RAJARAM SARASWATI VIDYA MANDIR

📅 04/2018 - 05/2019　　📍 Uttarakhand, India

- 93.4%
- State Rank-16

PROJECTS

Abakwa Ad-Unit-Exchange(AUX) Platform

🔗 https://abakwa-frontend.vercel.app/

- **Built a full-stack ad-tech platform** with 2 distinct user roles (advertisers & publishers); enabled 100% digital onboarding.
- **Developed real-time dashboards** for managing ad units, approvals, and implementation documents; cut integration time by **50%**.
- **Led CI/CD and monitoring** for post-deployment support, fixing 95% of critical bugs within SLA and ensuring 99.9% uptime.

WhatsApp Analytics & Engagement Platform

🔗 https://demo1.squaregroup.tech/

- Architected and built a **multi-tenant WhatsApp Analytics SaaS platform** using Next.js and PostgreSQL, implementing a secure schema-per-tenant design for robust client data isolation.
- Integrated **Google's Gemini AI** via REST API to automate inventory categorization from bulk Excel imports, boosting data accuracy and reducing manual data entry by 95%.
- Designed a scalable marketing broadcast system using RabbitMQ for asynchronous delivery, enabling **non-blocking scheduling** of large-scale user campaigns.

SOCIAL-APP

🔗 https://social-app-9upa.vercel.app/register

A full-stack social media application development project

- **Designed and developed a full-featured social media platform (Twitter-like)** using the **MERN stack**, implementing real-time interactions and scalable architecture.
- Integrated RESTful APIs for seamless communication between client and server, enhancing data retrieval and user experience

KEY ACHIEVEMENTS

Omdena-Milan challenge Contribution

1. Developed and trained a machine learning model for identifying urban agriculture areas in Milan, achieving **98% accuracy** in location predictions.
2. Collaborated with a global AI team, refining the model and integrating data-driven insights to support sustainable agriculture initiatives.

DSA Problem Solving

Knight at Leetcode with Rating: **1879** (Top 5% Globally), Solved more than 1600+ DSA Problems on different Platforms

SKILLS

Java	Ruby	JavaScript	Data Structures
Git	GitHub	JWT	Linux CLI	MongoDB
Test-Driven Development		RSpec	Next.js
OOPs	PostgreSQL	Rails	React
RESTAPIs	SAP	SQL	Vultr	Linode
Ruby on Rails	Basic CI/CD	TailwindCSS	